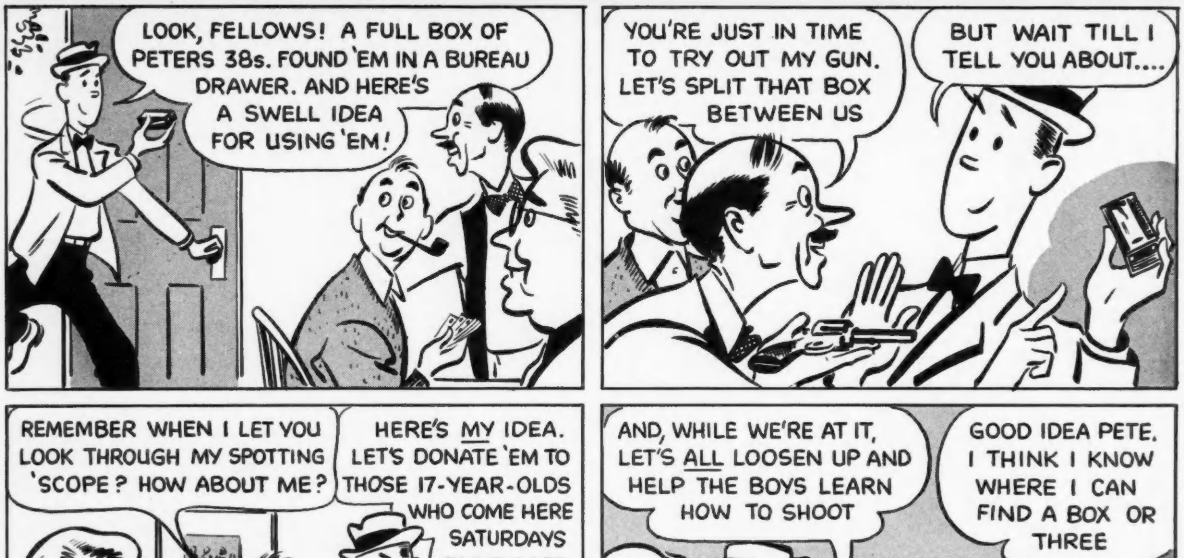
25 CENTS

THE AMERICAN RIFLEMAN

Peter Peepsight HAS AN IDEA


LOOK, FELLOWS! A FULL BOX OF PETERS 38s. FOUND 'EM IN A BUREAU DRAWER. AND HERE'S A SWELL IDEA FOR USING 'EM!
YOU'RE JUST IN TIME TO TRY OUT MY GUN. LET'S SPLIT THAT BOX BETWEEN US
BUT WAIT TILL I TELL YOU ABOUT....
REMEMBER WHEN I LET YOU LOOK THROUGH MY SPOTTING 'SCOPE? HOW ABOUT ME?
HERE'S MY IDEA. LET'S DONATE 'EM TO THOSE 17-YEAR-OLDS WHO COME HERE SATURDAYS FOR TARGET PRACTICE
AND, WHILE WE'RE AT IT, LET'S ALL LOOSEN UP AND HELP THE BOYS LEARN HOW TO SHOOT
GOOD IDEA PETE. I THINK I KNOW WHERE I CAN FIND A BOX OR THREE
TAKE THESE, PETER. I WANT TO HELP TOO
...COUNT ME IN!
ME, TOO
MUDDY BOTTOM RIFLE AND PISTOL CLU
LET'S WORK TOGETHER! CLUBS CAN HELP IN CIVILIAN GUN INSTRUCTION WHILE THE AMMUNITION FOLKS ARE SENDING ALL THEIR PRODUCTION TO THE MEN IN UNIFORM. THE "V" WE'RE ALL SHOOTING FOR IS VICTORY

PETERS

Rifle and Pistol Ammunition

PETERS CARTRIDGE DIVISION, *Remington Arms Co., Inc., Bridgeport, Conn.*

"Police Match" is a trade-mark of Peters Cartridge Division

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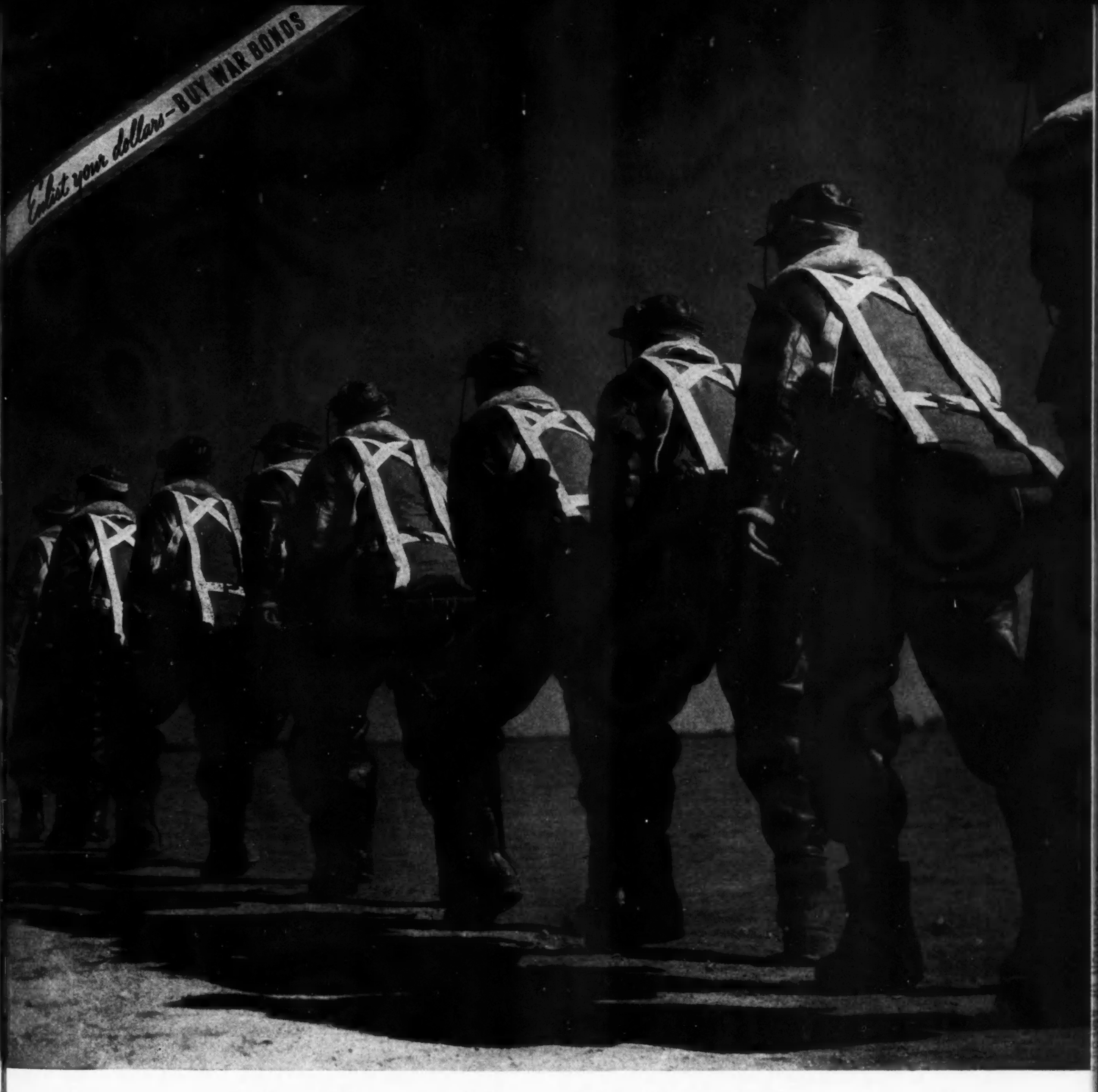
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Nine Young Men with "Eyes" Second to None

ARMY E NAVY

To the enemy command the star-marked bomber these nine young men will fly is a many-eyed creature of destruction. Its "eyes" of optical glass, fixed on the stars or sun, lead it straight as the crow flies to its objective. Then other optical "eyes" look down and, where they look, ton upon ton of American-made TNT blossoms red in the dust of a shattered Axis dream. Still other "eyes" make the photographic record of its accomplishments to give lie to claims of "only slight damage" . . . to chart a path for others to follow.

Without the bomber's many-lensed "eyes"—what they all are and what they do is a military secret—without the optical instruments such as Bausch & Lomb produces—the powerful offensive blows of America's mighty bombing fleet would be impossible.

From the blazing furnaces of Bausch & Lomb . . . from its optical workrooms . . . come not only the optical glass and optical instruments that help to keep American planes flying, to make their missions more effective . . . but also the optical instruments of research and control that, on the production front, help to make these strong-winged planes so safe, so secure, so hard for the enemy to bring down.

That is the seldom heard story back of the reports of successful bombing missions, of American planes limping homeward, riddled by shellfire, but still able to fly and fight and to bring their nine young men safely home. That is the satisfying story of the research, quality control and precision inspection that optical instruments alone have made possible.

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AN AMERICAN SCIENTIFIC INSTITUTION PRODUCING OPTICAL GLASS AND INSTRUMENTS FOR MILITARY USE, EDUCATION, RESEARCH, INDUSTRY AND EYESIGHT CORRECTION

USE THIS FORM TO ORDER SPOTTING SCOPE AND STAND

National Rifle Association,
1600 Rhode Island Avenue, N.W.,
Washington, D. C.

Gentlemen:

Please ship to the address below, transportation charges PREPAID;

__________ Mossberg Spotting Scopes
(How Many)
@ $23.50 each $__________

__________ Mossberg Scope Stands
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Total Amount Inclosed $__________

I certify that the above material is for (Check which):

☐ Coaching in a Small Arms Firing School
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☐ Airplane Spotter
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Ship to: ☐ By express ☐ By Parcel Post

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Note: Prices quoted are f.o.b. your city and include Federal Tax.

Another
MARKSMANSHIP AID

Here is another aid for marksmanship instruction—a useful and inexpensive combination for students and instructors alike. And while the limited supply lasts students or instructors may purchase this popular combination—Mossberg Model A Spotshot and stand.

The Mossberg, you know, is an inexpensive but practical spotting scope. A 20 power drawtube with black, crackle finish, it spots .22 shot holes satisfactorily indoors or outdoors at all standard small bore ranges. The companion stand, likewise popularly priced, is also ideal for instruction purposes.

Naturally, we must restrict sales of this essential training equipment to organizations or individuals who will use it for marksmanship training or for other approved purposes, including the spotting of airplanes by O.C.D. workers. That is why it is necessary to use the accompanying purchase form when ordering a scope or stand. Your order will be filled promptly if it meets the simple qualifications specified.

JOIN THE NATIONAL RIFLE ASSOCIATION

Take an active, patriotic part in the N.R.A. Wartime Training Program. Help us to reach our 1943 goal—the equivalent of 27 divisions taught to shoot straight *before* their induction into the armed services. Enjoy the fellowship—the satisfaction—of Annual Membership in one of the nation's oldest, most practical patriotic Associations. Clip and mail the application below. (THE AMERICAN RIFLEMAN magazine is mailed to members as one of the benefits.)

APPLICATION FOR ACTIVE MEMBERSHIP

National Rifle Association,
1600 Rhode Island Avenue
Washington, D. C.

Yes, I'll take a hand in the good work of the N.R.A. this year. I inclose remittance of

☐ $3.00 for a one year membership subscription.
☐ 5.00 for a two year membership subscription.

I ☐ have already / ☐ have not signed the N. R. A. pledge.

RC—

My Name__________

Occupation__________ Age__________

Address__________

City__________ State__________

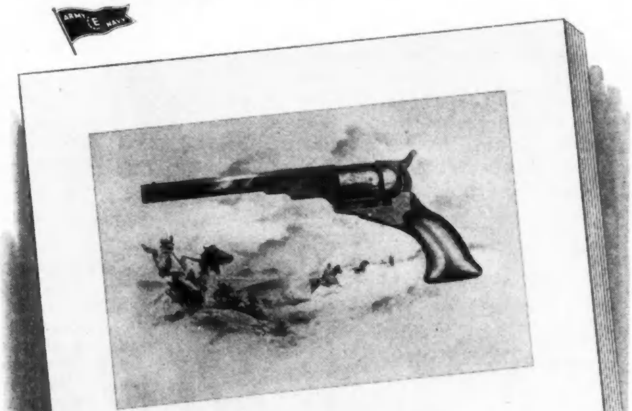
COLT-Quality is born of SKILLED HANDS

Craftsmanship, skill, practical knowledge that come only from experience form the human tools that build Colt revolvers and automatic pistols. On Colt production lines, there are thousands of machines . . . huge batteries of them stretched row on row. BUT, even so, the magic touch of *skilled hands* never leaves a Colt as it turns from raw steel into a precision firearm.

All through the Colt factories, you find these craftsmen whose experience has been responsible for the Colt reputation for producing record-breaking target arms and dependable military and police arms. Thanks to these men, many of whom have been with the company for over 50 years, *Colt-quality* has never been surpassed.

For the duration all our resources are being devoted to supplying our armed forces with Colt revolvers and automatic pistols, machine guns and automatic cannon. We are looking forward to the day of victory when once again we will serve our target-shooting friends.

Veteran craftsman for over 30 years, Walter Lee is typical of the men who protect *Colt-quality*. With skilled hands he forges steels made to special Colt specifications into revolver and pistol frames.



Send for these
AUTHENTIC
REPRODUCTIONS

One of America's foremost lithographers has just produced for us a set of six beautiful, authentic reproductions of early Colt revolvers. They are 14" x 11" in size, ideal for framing. They'll make a real addition to your den or club room.

Included in the set is a reproduction of the famous Colt Texas Paterson Revolver, illustrated at left. The Texas Paterson, produced in 1836, was the forerunner of the present line of Colt arms.

Send twenty-five cents (25¢) in coin or stamps and your set of prints will be mailed promptly. Address, Colt's Patent Fire Arms Mfg. Co., Dept. "A", Hartford, Connecticut.

COLT

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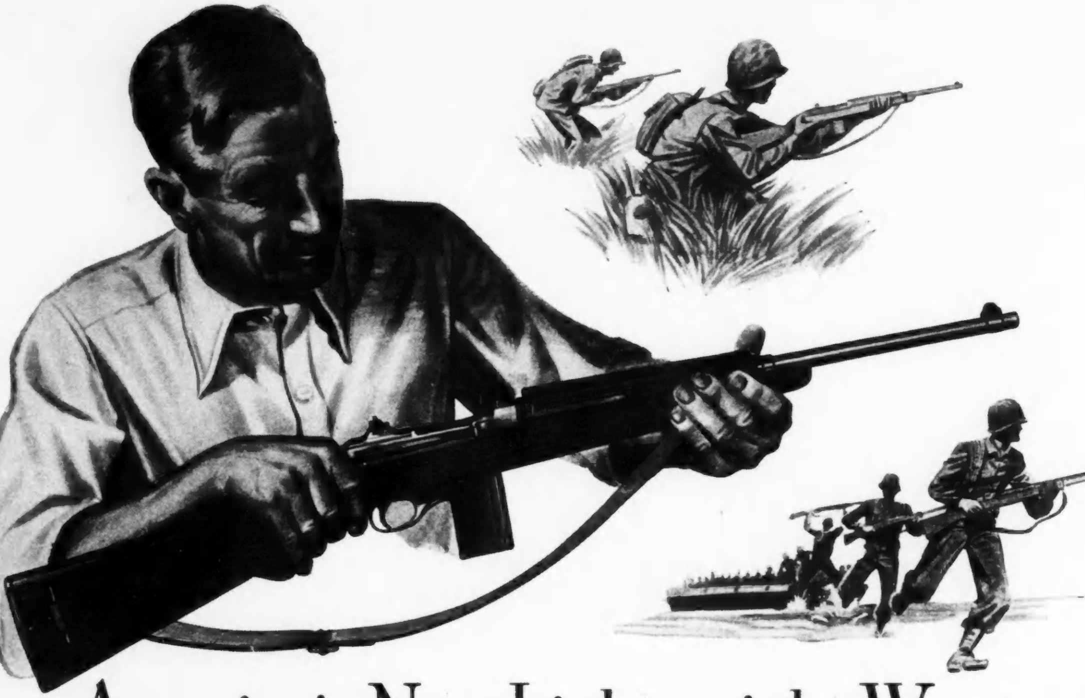
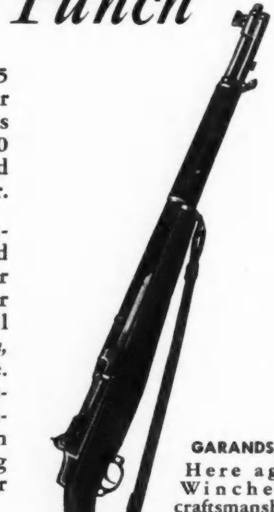


America's New Light-weight Weapon ...with a Heavy-weight's Punch



THANK the United States Ordnance Department for this good news. They quickly realized that, in *this* war, our paratroops, and all other non-rifle bearing combat forces, needed a personal weapon that was lighter than the standard rifle . . . greater in fire-power, longer in range and faster in action than the automatic pistol.

Yesterday, no such weapon existed. Today, it is rapidly being made available to America's fighting men.

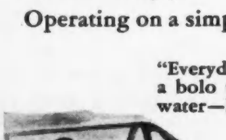
Here's the story. In record time, Winchester *originated, engineered and developed* the U. S. Carbine, Caliber .30, M1. Gruelling tests in sand, rain and water—the toughest tests that Aberdeen Proving Grounds could devise—resulted in a unanimous verdict for *this* carbine as the best for this vital U. S. military job.

Operating on a simple principle that's entirely new to military arms, with 15 rounds in its magazine, the Winchester U. S. Carbine, Caliber .30, M1 packs a terrific wallop. It speeds its .30 caliber bullet 1900 feet per second . . . greatly increases offensive power.

Winchester is proud of this accomplishment . . . of originating and developing the U. S. Carbine, Caliber .30, M1 . . . of manufacturing it in ever increasing quantities. We are mindful of the fact that it is Winchester *men,* not machines, that made it all possible. And that these same Winchester master craftsmen look forward to the coming peace when, once again, they can supply you with Winchester sporting arms and your favorite Winchester ammunition.

WINCHESTER REPEATING ARMS CO.
New Haven, Conn.
Division of WESTERN CARTRIDGE COMPANY

GARANDS, TOO!
Here again, Winchester craftsmanship is in the forefront of service to America. For we have long been on a 'round-the-clock production schedule of this famous rifle which won its spurs at Bataan and Wake Island.



"Everyday—with a Winchester Garand across his knees and a bolo to cut himself out of his harness if he fell into the water—he flew between Bataan and Corregidor . . ."

"The Heroic Defense of the Philippines"
—Reader's Digest, July 1942

WINCHESTER
TRADE MARK
"On Guard for America Since 1866"

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RIFLES AND SHOTGUNS • CARTRIDGES AND SHOTSHELLS • FLASHLIGHTS AND FLASHLIGHT BATTERIES

The Official Journal of The National Rifle Association of America

AMERICAN RIFLEMAN

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L. Q. BRADLEY, *Circulation*
W. F. SHADEL, *Editor*
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THE COVER: North Africa alert for our fighting men? Well, we wish we could say this is an actual Kodachrome from the Tunisian front, but we can't truthfully do so. The similarity of this training scene on one of our own Western deserts with the real fighting front — the mountains, the sand, the surprise alert to the men—was so striking, however, that we couldn't pass it up as a cover illustration. Kodachrome photograph by U. S. Army Signal Corps.

THIS MONTH:

"Firepower," our fully illustrated lead story for this issue, is a roundup of the fighting tools being supplied our own forces and Allies as well. The inspiration for this review of materiel, comes from a great show offered magazine and newspaper people only recently at Aberdeen Proving Grounds where the up-to-date equipment was demonstrated—tanks, self-propelled guns, carbines and cannon. There was no escaping the conviction that our fighting men were being supplied the best possible tools.

"The New Rifle in the New Army" complements the "Firepower" article in its discussion of the triangular division, brought about, as Lieutenant Minter contends, through increased firepower of the basic infantry weapon, the rifle, and extending on up through the entire category of divisional materiel.

NEXT MONTH:

"Booby Traps," those intriguing but deadly devices of the present war, are being developed by our own Army to match anything the enemy may have.

" 'Scopes for Snipers." Just what is the best military scope to meet the needs of the sniper? Have our hunters and target shooters contributed the practical experimentation with equipment, now applicable to the military problem? Some of the answers to these questions appear in the pro and con discussion appearing next month—of timely interest to civilian or military shooters who want to see our own services making the best possible use of our crack riflemen.

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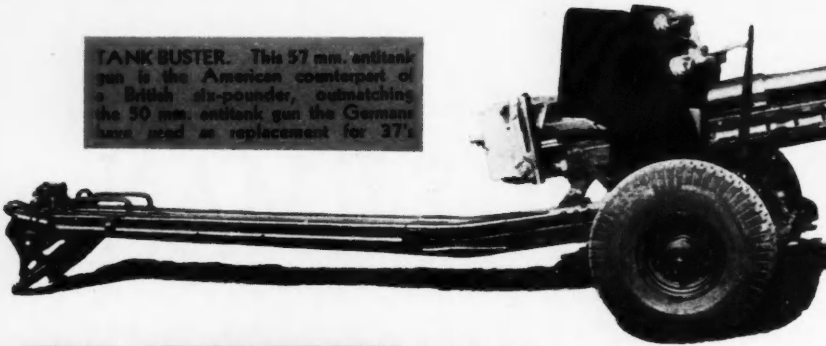
Published monthly by The National Rifle Association of America, 1600 Rhode Island Avenue, Washington, D. C. Domestic rates, including all of North, South and Central America, $3.00 a year; $5.00 for two years; elsewhere, $3.60 a year; $6.50 for two years. Entered as second-class matter. April 1, 1908, at the Post Office at Washington, D. C., under Act of March 3, 1879. ***Copyright, 1943, by The National Rifle Association of America.***



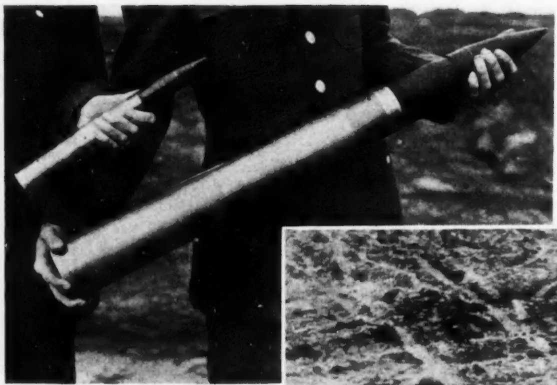
TANK BUSTER. This 57 mm. antitank gun is the American counterpart o a British six-pounder, outmatching the 50 mm. antitank gun the Germans have used as replacement for 37's

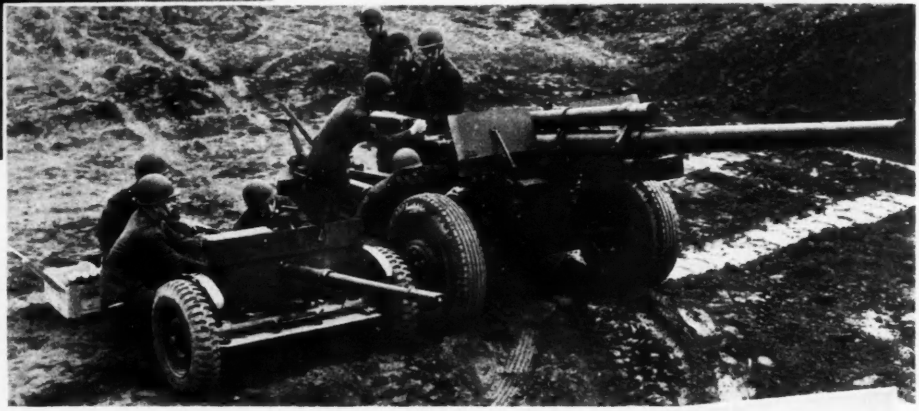
FIRE

A REVIEW OF AMERICA'S FIGHTING MIGHT

By Major-General L. H. Campbell, Jr.

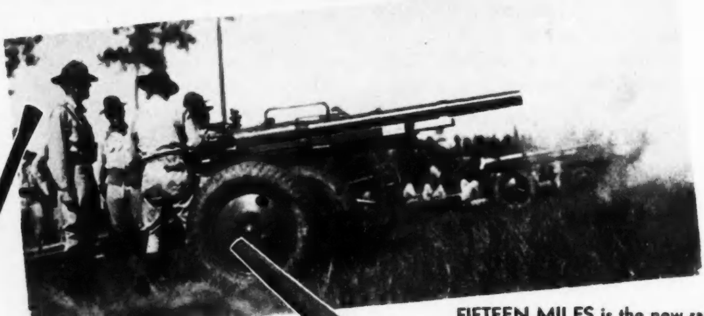
Chief of Ordnance
U. S. Army



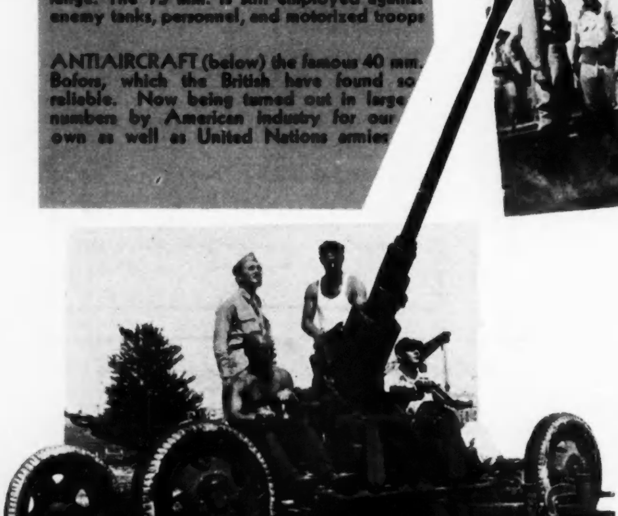


COMPARISONS. The new high velocity, three inch antitank cannon shown alongside the familiar 37 mm. This three-incher has already proved it can outshoot the German 88 mm. and smash any enemy tank. (above) Relative sizes of the 37 mm. and three inch shells

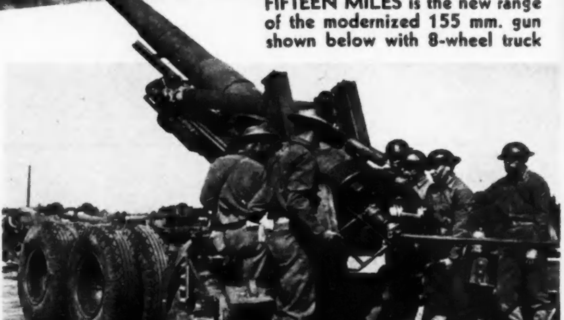
NEW LINES for an oldtimer, the 75 mm. gun, (right) redesigned for higher velocity and longer range. The 75 mm. is still employed against enemy tanks, personnel, and motorized troops



ANTIAIRCRAFT (below) the famous 40 mm. Bofors, which the British have found so reliable. Now being turned out in large numbers by American industry for our own as well as United Nations armies

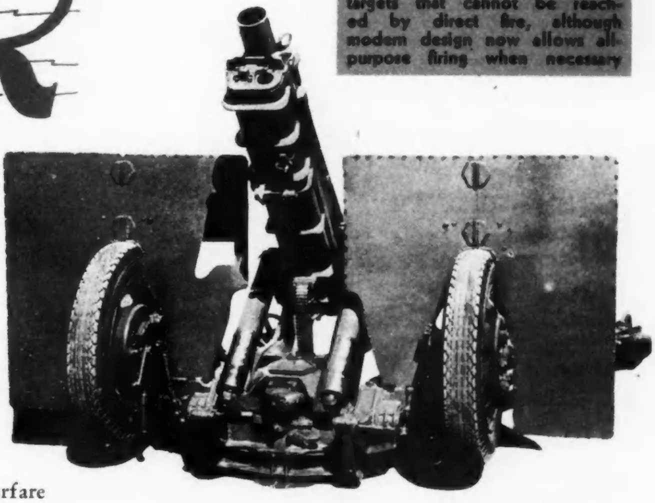


FIFTEEN MILES is the new range of the modernized 155 mm. gun shown below with 8-wheel truck



POWER

HOWITZERS have been stepped up in velocities and ranges to keep pace with increased firepower of all other guns. Shown below is the 75 mm. improved howitzer and carriage which is used to search out targets that cannot be reached by direct fire, although modern design now allows all-purpose firing when necessary

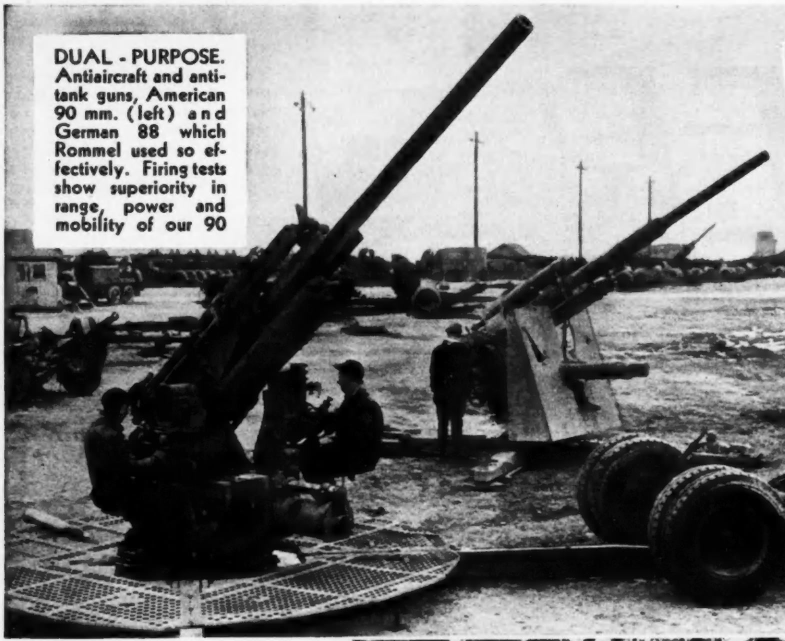


THE TRICKLE OF AMERICAN MUNITIONS abroad which started with the first ambitious moves of the enemy has now swelled to a mighty flood. Our weapons are being used today, for fighting or training or both, at the proverbial four corners of the earth including Great Britain, Russia, China, Asia, India, Australia, Africa, Alaska, Iceland, and in the principal island groups of the Seven Seas such as the Solomons, the Philippines, etc. Even the Axis is using *copies* of some of our arms. No other country in the world is set up to produce the volume of quality weapons that we are now turning out.

A revolution has taken place in modern warfare brought about by accelerating mobility and increasing firepower. This change is due to the application of the internal combustion engine to the propulsion of fighting weapons, the use of the automotive principle to the movement of troops. A whole new array of combat tools has been developed—fast firing, high-angle antiaircraft artillery; swift, self propelled cannon; tanks almost impregnable and mightily armed; half track scout cars, armed and

FLIGHT DECK of carrier blazes away with tracers from its 20 mm. guns. Combining fast firing with flexibility and accuracy, these smaller weapons have proved to be the pet of Navy gunners in repelling enemy dive-bombing attacks

EIGHT INCH GUN ON RAILWAY MOUNT, considered one of the heaviest practical pieces of equipment for the average track, providing a most potent weapon on a mobile mount. While World War I used a fourteen inch railroad piece, transportation problems caused Ordnance to settle for this more maneuverable eight inch, firing a 200 lb. projectile and complementing the new mobile 240 mm. gun



DUAL - PURPOSE. Antiaircraft and antitank guns, American 90 mm. (left) and German 88 which Rommel used so effectively. Firing tests show superiority in range, power and mobility of our 90

THIRTEEN AND A HALF TONS of high-powered fighting machinery, the M-5 light tank with aircraft engine. (Below) Repair crews with wrecking trucks work just behind battlefront to put equipment back into fight

armored; amphibian jeeps, and last but not least, heavy wrecking trucks and rolling machine shops that follow all this equipment into battle to keep it in repair and in the fight. The impact of this change on industry as well as warfare can be visualized partially by the fact that an armored division today utilizes 400,000 horsepower in the field.

From the time of George Washington, the American soldiers' fighting weapons have been designed and developed by the Ordnance Department of the U. S. Army. The Springfield was until recently the world's best military rifle, but, not content, Ordnance engineers produced the Garand with its increased firepower. The pistol was augmented by the more accurate harder hitting carbine; machine guns, including the Browning, were improved in mechanical detail and volume of fire; and so on down the list. Everything made is given the acid test at the Ordnance Aberdeen Proving Ground, Md., operated or driven continuously until failure discloses some weak spot, if any. In addition samples of everything the enemy has are being captured and brought to this proving ground for comparison. No stone is left unturned in the search for greater and accelerated firepower.

Our all-out effort to overwhelm the Axis and our deplorable start and miraculous recovery were recently summarized by Secretary of War Henry L. Stimson who stated that when he came to his present job in July, 1940, we didn't have enough powder in the whole United States to last the men we now have overseas for anything like a day's fighting. And, what was worse, we didn't have any powder plants or facilities to make it; they had all been destroyed after the last war.

The same thing was practically true of our facilities for the manufacture of weapons—we had no facilities for manufacturing weapons except our six Ordnance arsenals whose capacity was only five per cent of the facilities we have today.

In 1940, our Regular army numbered only 265,000

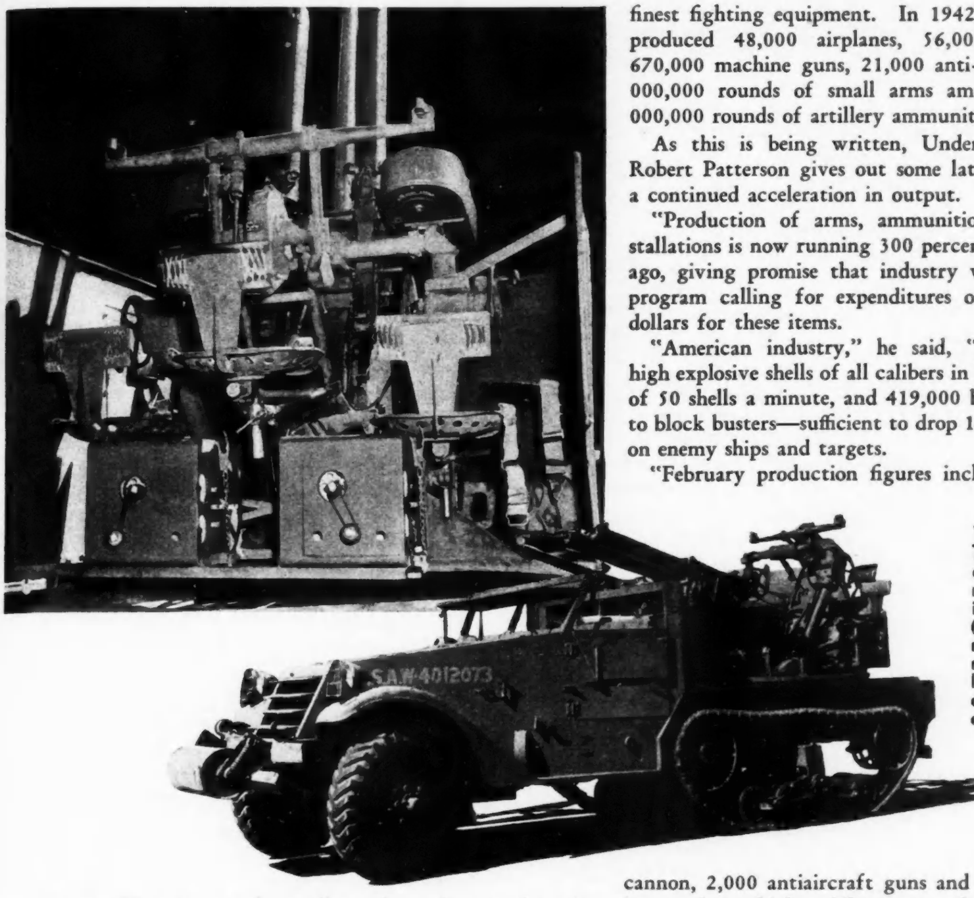
LINED UP. These 75 mm. field howitzers are adaptations of the easily dismantled pack howitzers used in jungle or mountain fighting men. There were only small numbers of up-to-date airplanes, tanks and artillery. Today the army numbers over 5,000,000 highly trained men and is still expanding, and those men are being furnished huge supplies of the finest fighting equipment. In 1942, American industry produced 48,000 airplanes, 56,000 combat vehicles, 670,000 machine guns, 21,000 anti-tank guns, 10,250,000,000 rounds of small arms ammunition and 181,000,000 rounds of artillery ammunition.

As this is being written, Under Secretary of War Robert Patterson gives out some later figures that show a continued acceleration in output.

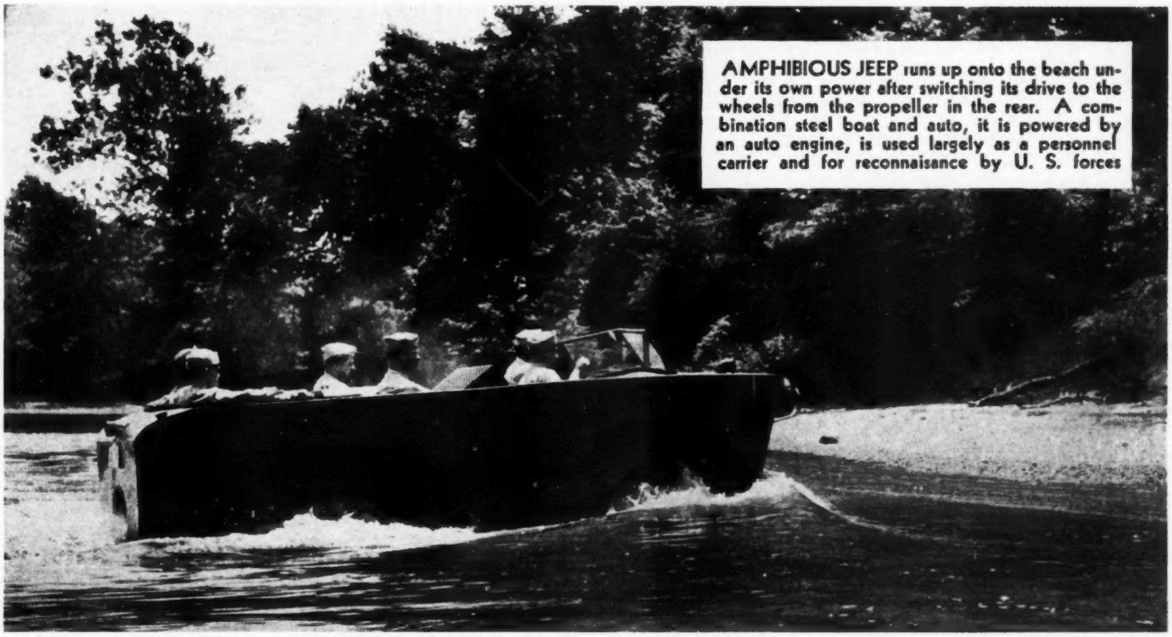
"Production of arms, ammunition, supplies and installations is now running 300 percent higher than a year ago, giving promise that industry will fulfill the 1943 program calling for expenditures of fifty-seven billion dollars for these items.

"American industry," he said, "produced 1,932,000 high explosive shells of all calibers in February, at the rate of 50 shells a minute, and 419,000 bombs of all sizes up to block busters—sufficient to drop 15,000 bombs nightly on enemy ships and targets.

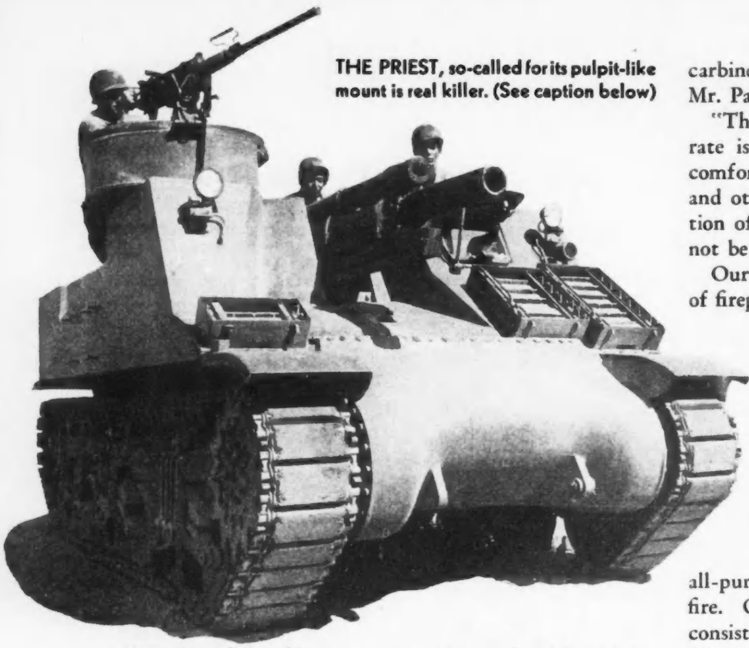
"February production figures included 8,000 aircraft cannon, 2,000 antiaircraft guns and 7,800 weapon-bearing combat vehicles. The output of small arms ammunition amounted to 1,244,000,000 cartridges—500 every second," he said. In January and February together, American shops produced 150,000 machine guns and



TRIPLE THREAT. Two .50 caliber machine guns and a 37 mm. gun combined in a single mount (above), then are mounted on fast-moving half-track (at left). Gives choice of either individual or simultaneous fire



AMPHIBIOUS JEEP runs up onto the beach under its own power after switching its drive to the wheels from the propeller in the rear. A combination steel boat and auto, it is powered by an auto engine, is used largely as a personnel carrier and for reconnaisance by U. S. forces



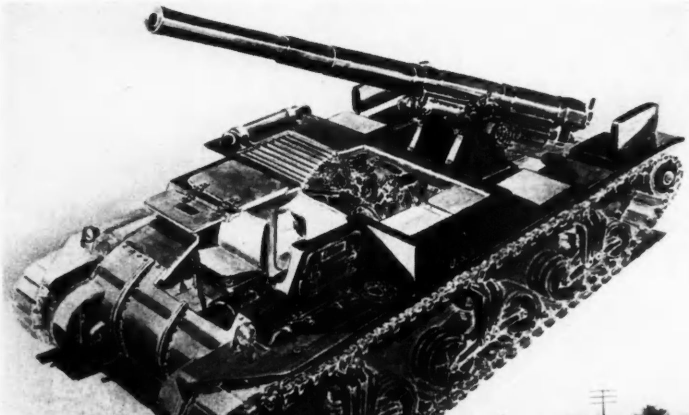
THE PRIEST, so-called for its pulpit-like mount is real killer. (See caption below)

134,000 sub-machine guns, as compared with 132,000 machine guns of all calibers in the World War. In the two months, the country produced 5,000 tanks, more than 28,000 Army trucks, 2,000 antitank guns and 5,000,000 pairs of marching shoes. Production of rifles, carbines, artillery and radio equipment is steadily rising," Mr. Patterson said.

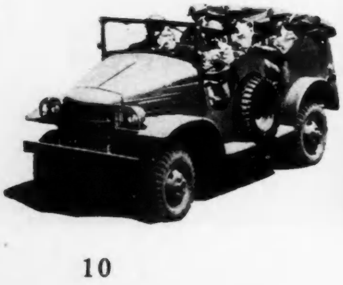
"The foregoing information of the present production rate is made public with the full appreciation of the comfort it will give to our fighting men in Africa, Asia and other battlefronts. We hope it comes to the attention of Hitler, who less than a year ago told us it could not be done."

Our field artillery today has a range of types, volume of firepower and flexible mobility that is unsurpassed anywhere in the world. Most of it is divided into guns or cannon and howitzers. The howitzer is a shorter, lighter weapon firing at higher elevations than the gun, with less velocity. Its plunging fire is employed in searching out targets that cannot be reached by direct fire, such as troops and equipment concealed on the reverse slope of a hill. More recently the velocities and ranges of these howitzers have been stepped up somewhat so that they can be employed as all-purpose guns, that is, for direct fire as well as plunging fire. Our field artillery, including antiaircraft guns, now consists of the following sizes: 20-mm., 37-mm., 40-mm., 57-mm., 75-mm., 3 inch, 90-mm., 4.5 inch, 105-mm., 155-mm., 8 inch, 240-mm.

The 155-mm. gun is a good example of what modernization has done for American weapons. The range of this modern gun is fifty per cent greater (15 miles) than the World War type, and, mounted on an eight wheel truck, it can be towed at fifty miles an hour. It takes only a few minutes to unlimber this gun, spread its split trail and drop it from its wheels to a stable position on the ground for firing. Projectiles, either high explosive or armor piercing and weighing some ninety-five pounds are employed together with separate loading. Fortifications, supply trains, *(Continued on page 34)*



LATEST TANK KILLER. Similar to the M-7, but carrying a big 155 mm. gun in place of the 105, the drawing above shows one of the most formidable pieces of armament of the war. Its official title is the 155 mm. gun motor carriage M-12.



GENERAL SHERMAN tank, extreme right, provides the chassis for the M-7 self-propelled artillery, center vehicle, a quick-moving, hard-hitting tank destroyer which packs a 105 mm. howitzer and a .50 caliber machine gun. Named the "Priest," it combines the speed of the General Sherman medium tank with the ability to hit harder. Now armed with a three-inch gun the M-4 Gen. Sherman is superior to Germany's widely-publicized, 56-ton, Mark VI

The NEW RIFLE in The NEW ARMY

By LT. JOHN E. MINTER, JR.

YOU WOULDN'T EXPECT IT to make much difference, would you?—the fact that a mob of American doughboys have been handed rifles which have a rate of fire some two and a quarter times faster than that of the weapons which they turned in to the Ordnance Department in exchange for them—plus some carbines that supplant pistols so as to get *all* our people into the fire-fight as soon as the enemy is two hundred yards away.

Oh, of course, it would make a difference in a fight. A whale of a difference, as even one of the layest of lay civilians observed to me recently in a conversation. Anybody can see that. If you can shoot at a man nine times while he is shooting at you only four times, you naturally have a bit the better of the argument—granted that the accuracy of your fire, round for round, is equal to or better than his. My civilian friend had it all figured out that the American Army should now be able to lick any gang up to twice its size, hands down.

But it had never occurred to him, until I explained, that the change to a faster firing rifle along the infantry regimental line of combat has entailed changes in every echelon of the land fighting forces—Artillery, Ordnance, the Signal Corps, the Armored Corps, the Engineers, even the Quartermaster Corps. The difference can be traced back far enough to show changes—appreciable ones—within the civilian components of America's emergency war machine. Not merely changes on paper, for which the army is famous (and who said deservedly so?), but changes in numbers, qualifications, organization and duties of personnel in all these branches, plus revisions of their basic doctrines of tactics and strategy, logistics and supply.

The civilian rifleman, both amateur and professional, should be interested in gaining an understanding of these vast differences in the plans and procedures of America's war effort. They have been brought about largely by what seems to many ill-informed people to be an insignificant improvement in a weapon which they will confidently tell you is fast becoming insignificant itself as far as war-making is concerned. True, very few civilian riflemen have had an opportunity to inspect and fire the so-called M-1, or Garand, rifle and M-1 carbine which are now standard throughout the Army. But a good shooter, familiar with the Springfield or any similar weapon, can make these companion "M-1s" his own babies with a very few minutes of instruction and a clip or two of firing on the range.

We have all read column after column in newspapers and magazines about the new "triangular division." Just for fun I have asked a number of civilians what they understand to be the essential differences between the triangular division and the old "square" division. About

This "Tank Destroyer" half-track with 75 mm. gun is fast. Can be used as scout car as well all I have got so far is the answer that the new division is "streamlined." What makes it streamlined, they don't seem to savvy. Some seem to think the only difference is the addition of enough motor transportation facilities to piggy-back the whole outfit at the same time. A few think back and pull out of their minds the phrase "increased fire power," but they don't usually have even a hazy idea of how or why the increase came about.

And I don't wonder. I once listened, fascinated, while an army officer tried to explain to a civilian friend who had asked him what these differences were. The poor fellow, who knew it himself just like A B C, simply couldn't talk in language the civilian could understand. He got out the official Tables of Organization for each type of division and started pointing out a figure on one, then the corresponding figure on the other. He talked about "organic units" and "attached units". He mentioned "basic transportation under regimental as opposed to battalion control." He tried to explain "battalion less heavy weapons" and "battalion with anti-tank platoon attached" as opposed to "battalion with anti-tank platoon in support."

What fascinated me was the ever-changing expression on the civilian's face as he tried very hard to follow. At the end this expression was one of utter bewilderment and stark admiration for a man who could know so perfectly a topic which a layman of admittedly high intelligence couldn't even begin to take in.

If you have ever tried to gain a complete, well-rounded mental picture of a military organization through perusal of its War Department Tables, you will see why. I hope that the explanation I am essaying here will be comprehensible to a man who has not spent endless hours staring at blackboard diagrams and listening to O.D.-clad instructors.

A good start would be a study of the old square division. Why they call it "square" will become obvious as we go along, but the reasons why it ever got to be square in the first place must be outlined. Personally, I think that if they hadn't drawn up the division organization on paper, in diagram form, they never would have thought that it even suggested the shape of a square. On the other hand, the new division does suggest roughly the shape of a triangle, in both its larger and smaller units and subdivisions, even when you see the force deployed in the field.

Machine gun crews base their size not only on men required to operate and supply but on number to tote disassembled weapon

The division (and all other military units, large and small, for that matter) was designed on principles which followed more or less closely this line of architecture:

1. Along the first line of land defense (or offense, if you prefer), which may be the national boundary common to another country, or our front line in a combat zone, or a shore line where a landing attempt by the enemy is contemplated, must be distributed a number of riflemen—soldiers who can, if need be, put on their own backs everything they need to live and fight effectively, and maneuver with it all for an indefinite time without becoming ineffectives.

2. Spotted along this line, at intervals determined by the nature of the terrain, knowledge of the enemy and other factors, must be certain weapons of size and weight which make them impractical for one man to operate and carry for great distances. Some of these weapons, such as the mortars and the .30 caliber machine guns (both light and heavy), may be readily broken up into groups which are not too heavy for a man to carry on foot, much as he would carry a rifle. It seems to work out in these cases that the number of men required to operate one of these weapons and keep it supplied with ammunition is usually the number of men needed to carry its disassembled groups.

3. Back of this line, and roughly parallel to it at a distance which may vary from a few rods to several miles, a line of still heavier weapons—weapons too large to be broken up and carried, group by group, by individuals on foot. The first of this type usually to be found, as we move from front line toward the rear, is the 37-mm. anti-tank gun, which is mounted on two pneumatic-tired wheels. It may be moved over limited distances by the crew on foot, but its "prime mover" is a truck, and it is never taken apart for the purpose of maneuver. In between the second and third classifications should be placed the .50 caliber machine gun, a weapon whose prime mover is a truck, but which nevertheless can be broken up and moved on foot by the crew for limited distances.

4. Back of this line, the medium and heavy artillery, perhaps up to the huge rifles which are moved only on railroad flatcars and fired from the platform. It now becomes apparent that the farther back you go, generally, the heavier the weapons you find. This is partially due to the fact that the range of a piece usually increases roughly in proportion to its size. But the increase in size also means a decrease in mobility, so they should be far enough to the rear to allow time for withdrawal in the event of a sudden, crushing attack from the enemy in that sector.

5. Back of this line, or perhaps interspersed with it (for we have now come back far enough to have ample ground space, and to ease somewhat the anxiety over a too-sudden ground penetration by the enemy), the bases of the Air Corps, and throughout the general vicinity the supply bases of the various branches which send up food, weapons, replacements, medical attention, ammunition and other necessities to the organizations farther front.

Before somebody picks me up on it, I hasten to point out that every one of these branches, including both combat and service units, extends practically the entire depth of the line. The heaviest artillery, perhaps ten miles from the frontmost line, will have liaison officers with the infantry regiments along the fringe of no man's land, coordinating operations and observing the accuracy of their units' fire. The Medical Corps will be everywhere, from the first-aid men attached to the front-line rifle companies to the fully-equipped field hospitals in the rear zones. Ordnance will be sending trucks full of weapons, parts and ammunition forward from their depots, and back to their railheads.

In general, the military fabric when combat is going on or imminent is a sort of a piece-work quilt with patterns so varying and complex that they seem like planless hodge-podge to the uninitiated. The "warp" of the cloth increases in size as you go from front to rear, from fine thread to Manila rope. The "weave" runs up into these parallel cords for varying distances, in various colors and sizes, depending on the exact mission and the circumstances.

Now, what does it mean to the division commander and his staff to have all the doughboys under his command equipped with a faster firing rifle?

First, it means that he may spread his line thinner. Instead of a rifleman every five yards or so along the length of the line, he may cut the number in half and still be able to put more rifle fire on the enemy than the enemy can put on him. If he means simply to hold his present position, he probably can do exactly that with safety and success.

Several advantages here are obvious. The individual soldier, who is a bit of a machine to his commanders, will put out twice as much work—that is, fire and fight—on the same amount of fuel. The quartermaster has to think in terms of the number of stomachs he has to fill every day and his job is directly affected by the fact that he now needs to feed only half the number of men he used to in order to give the division commander the same amount of fighting power. Then, too, one man is only half as good a target to the enemy as two would be, especially if he is twice as far from the next man. The enemy artillery does less harm per concentration on a thin line, for obvious reasons. Our thin line requires only about half as much entrenchment service from the engineers, needs probably less than half as much medical attention, per mile of front.

While these branches find an easing of the pressure, the Ordnance has to tighten its belt. Our new line needs more ammunition than the old, needs it faster, needs it most probably in a greater variety of places, since the line of less units has greater maneuverability and simpler control problems. (List that last sentence as another advantage to the commander.)

What about the artillery? Well, if we decide to use our old front-line interval, we force the enemy to close up almost elbow to elbow to hold us. This makes our artillery's job something like duck soup. This relative advantage is constant, no matter how far apart we deploy our own infantrymen. When we reach an extension where the artillery effect is no more than normal, our own big guns still have the edge in that they can extend their impact areas in depth, thus forcing quicker enemy retirement or annihilation and facilitating our advance at the time we wish to attack.

SCOUTING MANEUVER IS LED BY SCOUT CAR WITH ITS PROTECTIVE ARMOR PLATE AND MACHINE GUNS

The Air Corps will have the same advantages as the artillery, for its bombardment missions in ground combat are of much the same type. In addition, we give the enemy air force a harder job both in bombing us and in observing us, since there are fewer of us on the ground. This in turn gives our own air the edge in fighting them off.

This preamble should give clarity to the analogy I wish to draw between the square and the triangular divisions. Imagine a row of gasoline-operated pumps along one air compartment of a battleship which has been torpedoed. The sea water pours in as relentlessly as enemy troops in an all-out assault. If each pump has an efficiency of X, it needs, let us say, three men standing by, echeloned to the rear, to bring up fuel, to bring up parts and lubricating oils, and to give the necessary maintenance service. And, of course, there must be other men throughout the ship, working to facilitate the movement of supplies.

Now, let us say we increase the efficiency of these pumps to 2X. Then the first man standing by one of them can now stand by two. One man, formerly the next link behind him, can now stand behind him and another fellow like him. And so on. The increase in

(Continued on page 20)

MEADOW MONKS

By F. WALLACE TABER

“EIGHT JAPS in two days. Hmmm, three head shots—drilled plumb center. Nice going, Corporal Lechien,” mused the Captain as he fingered the orders raising Lechien's rank. “An enviable record and damned good shooting in any man's army. Wha'dye do, get that way sniping whistle-pigs back in Vermont?”

“Pennsylvania, sir,” corrected Lechien, making a pass at a blood-sucking fly and recoiling to scratch a spot of dhobie's itch that had penetrated a fortnight's growth of whiskers. “Pennsylvania and Michigan.”

“No matter, it's still damned good training for a jungleer regardless of what state he's from. Too bad more of these guys didn't train on groundhawgs back home.”

* * *

The Challenger snorted, puffed and wheezed to a stop in clouds of steam at Cheyenne, interrupting our conversation and my musings on what my companion had just finished telling me.

“Is that a fact?” I said thoughtfully.

“Yes,” he said, “that's a fact and it was demonstrated and proved dozens of times back there. The boy that grew up into a Marine by stalking groundhogs on the old home farm, sliding and slithering on his belly from cover to cover, over stone walls, around rocks, stumps and trees really learned his stuff for what was to come. The best jungleers on Guadalcanal and in the other Solomons got their basic training squeezing 'em off on the little red monk of the meadow. Add a bit of camouflage, a keen-edged knife and jungle ken and he's competition for Nippon's best.”

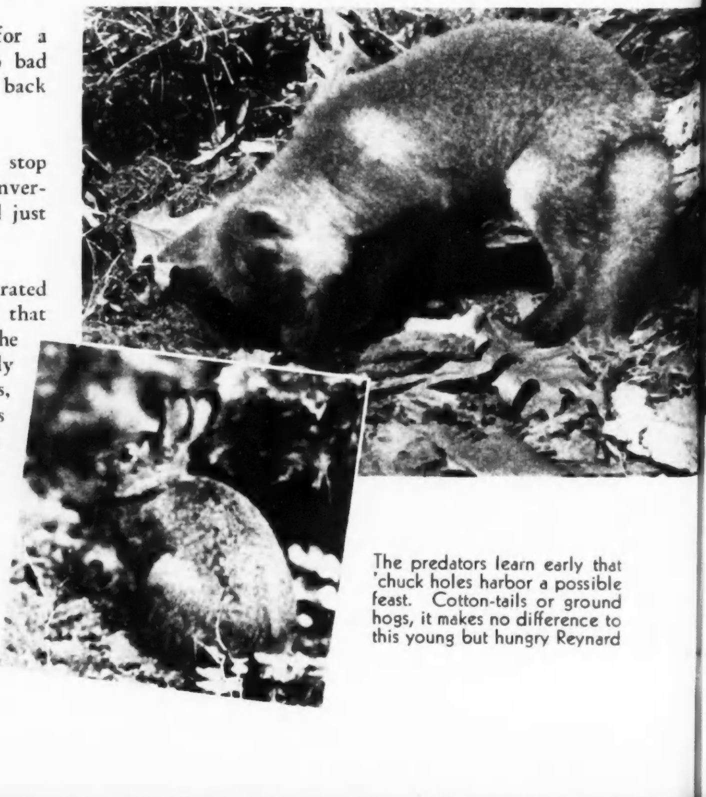
“Is that right?” was all I could cook up at this point.

“Of course,” went on my narrator, glancing at the empty sleeve neatly pinned to his blouse, “some of the Japs can shoot, too.”

I pushed the conversation no more and my companion left the train at a whistle stop out east of Pittsburgh. I hope he finds groundhogs aplenty. His right arm was still good and some of these one-armed fellows get to be shootin' fools.

Thinking back over this conversation I began to realize that *Marmota monax*, or woodchuck or groundhog if you prefer, has had a real economic value that has been pretty much overlooked by the experts. He's done the country a real service in spite of his holes in the ground and his raids on alfalfa fields and grain. These depredations have called for control methods that have been a joy and a delight to the country boy from pioneer days. These boys, on whom the country has depended for defense in its wars, have whetted their shooting eyes and their trigger fingers on these little brown marauders from the time they could tote a little .22 out over the pasture fence.

A man they say is just a grown-up boy and as with time these boys became men they also became firm addicts



The predators learn early that 'chuck holes harbor a possible feast. Cotton-tails or ground hogs, it makes no difference to this young but hungry Reynard of their boyhood shooting sport. They began to reach out farther and farther for their little targets and, as they reached, it became obvious that something had to be done about their pet .22. It couldn't be relied upon to group positively where those distant targets were. And it didn't have the punch left to stop the 'chucks in their tracks when they were hit. Too often did they drag their crippled carcasses down into their nearby holes to linger painfully too long.

The answer to this was more powerful slugs to dispatch these diggers of meadows humanely, instantaneously. The groundhog quickly graduated to high-power game. Deer rifles were brought into action and then came the Krag and Springfield and other military arms. Later came special custom-made cartridges designed especially for these babies. Groundhog shooting grew up, too, into a real man's game.

But despite all this shooting and other methods of control, often necessary in some sections, the groundhog has held his own and more. New England and the Lake States contain the heart of the population density. And this thickly populated area extends on into Canada where the Province of Ontario boasts large concentrations in certain sections. In Manitoba they dwindle and occur only where clay banks and gravelly ridges offer choice den locations. The same is true over much of northern Canada.

Pennsylvania is a border-line state so far as woodchuck populations are concerned, and so are Maryland and West Virginia. They never sported more than mediocre to sparse populations in the beginning. There are some notable local exceptions, of course. The mountain areas especially boast fair numbers all the way down to the Carolinas and even into Georgia. But as a whole the woodchuck densities in these states are noticeably on the less-than-average side.

The woodchuck is predominantly vegetarian but it is said that a choice young chicken may occasionally prove too much of a temptation. Shucked corn, young fruit trees and truck crops are utilized in some areas, but the brunt of the damage is borne by leguminous forage crops such as clover and alfalfa. New England farmers even tell of sagacious old meadow monks that annually follow the rotated soybean plantings from one field to another.

Ground-hog day and there's that shadow
. . . ho-hum, six weeks more winter

Although the amount of forage actually consumed is large, probably an even greater amount of his damage results from the large mounds which, in the aggregate, cover a considerable area. Not only do these mounds smother much vegetation, but in avoiding them during harvest, the mowers miss much of the adjacent crop. And the constant hazard of the burrows and their cleverly hidden "back doors" to horses' legs and riders' necks and the potential danger to the limbs of other farm stock add to the unpopularity of the chuck over much of its range.

On the other hand, the digging propensities of Mr. Monax may be considered a definite asset, especially from the standpoint of the rabbit hunter. The cottontail is known to be much too lazy to dig his own burrows and prefers to take advantage of the diligence and industry of the groundhog by using his "diggings." The reason why Molly Cottontail prefers the abode of the woodchuck to the equally available protection afforded by cracks in rocks, natural cavities, stumps, fallen logs, etc., was demonstrated by Dick Gerstell in Pennsylvania. In an outstanding piece of game management research, Gerstell showed that the air-conditioning system of chuck dens is undoubtedly the prime reason for this. It is a matter of comfort to the bunnies. Chuck dens are so constructed that the air temperatures in them during severe winter cold spells are most agreeable, especially when compared with temperatures in other available retreats. A hollow stump, for instance, showed a maximum temperature of 40 degrees Fahrenheit and a minimum of four degrees below zero during a fourteen-day period in January. During this same period, the thermometer in a woodchuck den registered a high of 37 degrees and a low of 22, showing on most days an almost constant temperature of 33 degrees. Even pheasants and quail sometimes seek refuge in woodchuck burrows during extreme cold spells. And, during gunning season, not a few cripples outwit their pursuers by dashing madly into the gaping mouth of a woodchuck den.

A good lesson in protective coloration, likewise, an unexcelled focal point for a pair of cross-hairs and sharp eyes

As with so many matters pertaining to game management, Pennsylvania again stepped out in front as the first state to recognize the groundhog as a game animal and offering him needed protection during certain periods of the year. Now, in the Keystone State, along with the ubiquitous deer and the pheasant, the rabbit and the grouse, the groundhog may be taken only during the regular open season, from the first of July to the end of September. In the border-line states, like Pennsylvania, supporting a relatively small population of chucks not now protected by such legislation, it might be suggested as a matter of sportsmanly wisdom that riflemen hold their chuck fire until later in the season. The motive behind this thought is purely a selfish one from the viewpoint of the chuck hunter. Its purpose is the betterment of the sport. From the standpoint of the young spring-born chucks, it has its definitely humane aspect. It is admitted that the early spring days are hard to resist, especially when a chuck hunter is afflicted with a bad case of "spring fever." The grass is low and the chucks show up as beautiful targets, awfully hard to resist. But these beautiful tarkets are the breeding stock which provide the shootable targets for the following year. The young are born in late April, blind and helpless. Every parent animal taken at this season means a loss of about five young which perish in the den. If the ole'uns are left to rear their young and teach them the secrets of life in a pasture, there'll be that many more for the latter part of the season and for breeding stock and targets the following year.

From the strictly farm standpoint this may not interest the farmer, but most farmers are sportsmen and the rest of 'em are good sports in the main. But if the chuck hunters are also sportsmen, they'll find the farmers quite willing to work along in the maintenance of this unexcelled sport of the cultivated country. The chuck shooter has a definite responsibility when he invades another's property with the ostensible purpose of helping him rid his premises of undesirable pests. But the shoe fits both feet and the farmer if he wants to can easily use poison, gas and other methods of control which eliminate obnoxious trespass by interlopers with high-power rifles shooting up the landscapes and occasionally the farm stock or buildings.

The amicable relationship between farmers and their sportsmen guests is a matter that is being given more consideration every day and the burden of responsibility lies with the chuck hunter in this instance. Consider the fact that you are under sufferance on another's place. Consider his desires. And consider, too, the safe and sane manner of shooting.

Like all youngsters, chuck pups need the guidance and teaching of their elders to combat their many natural and unnatural enemies. In the beginning they lack all wariness and are as stupid as possums when they first emerge into the open. But under the tutelage of the more experienced among them they soon learn the evil intentions of farm dogs, foxes, coyotes, raptorial birds and our young farm boy with his .22.

He soon gains all the knowledge and experience needed in a fine game animal. With his natural stamina and hardihood he is game worthy the mettle of the best of our snipers and the best of the weapons he has designed to use on him. Any way you take him, Monax is a game critter, and really hard to stop and keep stopped.

The young stalker with his .22 accounts for a great many chucks every year. While strictly speaking the old reliable .22 isn't a chuck cartridge, it will stop 'em cold in their tracks with a properly placed head shot. This is particularly true with the very high-speed, hollow-point loads. The joy in shooting with a light accurate gun of this caliber is in the approach to within proper .22 caliber range. The stalk is the thing and the closer the stalk the surer the shot and the surer the kill. This is real sport for the young hunter of any age.

But with age comes a diminishing desire for the strenuous activity of the stalk and our chuck hunter finds greater thrill in reaching out for those babies over on the other side of the pasture. Here enters the art of the sniper. And those who know the game will not question it as an art. It requires all the skill and ability of the trained rifleman. It requires the best in our most accurate flat shooting, scope sighted rifles. To the woodchuck may be allotted much of the credit for the development of many of our newer, faster, smaller caliber cartridges. He provided the incentive for such straight shooting, long range weapons, which are also much safer to use in our eastern rural regions.

Even with such superior equipment the shooter is still the man behind the gun and must use all his cunning and artfulness in placing his shot where it is intended, despite range, terrain, wind and atmospheric difficulties.

The net result of a shot fairly placed under such conditions is satisfying to say the least. It has served to help control an animal which can easily become a damaging pest, and in these meatless days should provide a tasty addition to the shrinking animal protein of our diet. The groundhog is edible. More than that he's durned good eating when properly prepared. Gourmets, on the lookout for something new and different, may well consider the whistle-pig from this angle if for none other.

A TRIBUTE TO THE SNIPER

In his Russian commentary broadcast over B.B.C. recently, Alexander Werth, special correspondent of the Sunday Times (London), said: " 'Grinding down of German man-power' has for a long time been the primary aim of the Russian Command, not only on active sectors of the front, but everywhere. Hence the highly developed Russian system of snipers. This is developed along the entire two-thousand-mile front, and everything shows that the German imitation of this system hasn't produced anything like the same results. For one thing the Russians have whole sections of the population who have had, as it were, lifelong training as snipers. The development of the Russian sniper movement has greatly tended to immobilize the German front and to discourage the Germans from popping their heads out of their dugouts and trenches, because all budging is meat for the snipers."

"Work Your Bloomin' Guns"

SINCE the beginning of this war the ordinary American has been thinking away ahead of the majority of American politicians. John and Mary Citizen, with a son in the Service or soon to be called, a cold house and no gasoline for the Sunday drive, have had just one idea—to do whatever must be done to win the war *quickly*. Rationing? High taxes? Compulsory service? Wage ceilings? Anguished hours waiting for that letter from overseas, praying God an official telegram will not first arrive? O. K.! This is WAR—a damned nasty business that must be won as quickly as American ingenuity and might will permit! Let's get on with it!

The complaints that have sometimes risen to a crashing crescendo are aimed, not at necessary war measures but at the vacillating, bungling and unnecessary methods employed by politicans and political appointees who first fear to do *anything;* then, finding unfamiliar power in their grasp, rush headlong to do *everything* that their inexperience suggests as desirable to aid their particular segment of the whirling circle motivated by Mars.

America has always been cursed with inept political leadership in time of war. From the War of Independence to today, strong, sensible men in both military and civil service, trying intelligently to lead Americans to victory, have been handicapped by political opportunists, sincere incompetents, and rabble rousers. Perhaps our political management has been worse in this war than in World War I but it has been better than in 1776 or 1865. Realistic action is being forced by the great common sense of the ordinary American—the urgent desire to stop stalling, to quit arguing, to cease using the fires of war as a smoke screen for political, social and economic maneuvers and power grabs. As the casualties mount on the battlefields of the world they will also mount in the ranks of those who permit the grab for power in politics and in special interest groups to interfere with the quick winning of the war.

It is difficult to believe that there are still school boards which are afraid to authorize small arms instruction classes for the 17 to 19 year old boys in their high schools. *Afraid*, mind you, that the *parents* of those boys will *object!* There are still officials in local rationing boards who do not see how they can authorize extra gasoline for instructors and pupils in pre-induction marksmanship schools because they are *afraid* other citizens will object! To all such *fearful* officials—local, state and national—be it said that the men and women whose sons are going out to battle want *no* stone left unturned which will aid in bringing back their sons alive, victorious and *soon!*

To all riflemen who cannot themselves go into battle abroad be it said that a battle remains to be fought at home—a battle for the boys of this Nation and for their parents. A battle against the unreasoning fear of politicians and against the calculating machinations of synthetic "leaders" of every ilk.

Said John Curran in 1790, "It is the common fate of the indolent to become the prey of the active. The condition upon which God hath given liberty to men is eternal vigilance, which condition, if he break, servitude is at once the consequence of his crime and the punishment of his guilt."—which is one way of saying that if you are not satisfied with the steps that are being taken in your community to prepare young men for war, *do something about it!* If you are not content with the vacillation, procrastination and grabbing by special interests which blot the national picture here and there, *do something about it!*

Remember that line of Kipling's—"If you want to win your battles, take and work your bloomin' guns!"—C. B. L.

Stand Up and Shoot!

By C. J. DERRICK

THE OTHER DAY, while amusing myself at the range, a man asked me a fair question.

"I'm all for this offhand stuff," he said, parking a beautiful prone-stocked 52 in the rack, "BUT,—How in hell can you hit anything in that position?"

It was all a matter of form, I replied, and of course considerable practice.

"Yeah? Well, if I had a palm-rest and a Swiss butt-plate and double-set triggers maybe I'd do some good for myself. But you can't do it with a three-pound pull and no sling."

I'll admit that the equipment and position prescribed by present rules is a handicap to precision offhand work but I wouldn't want to see any change. And I'm convinced that the average shot, like myself, can do pretty well with the stuff they let us use.

So far as the expert offhand shots are concerned, I have nothing to say. These men have studied the game and know what to do. However, if you cannot average 85 x 100 with an occasional soul-stirring 90, you may find something useful in this chat.

One word of caution. These are my personal notions and not the result of Divine Revelation. Don't take anything anyone tells you as Gospel. Listen to it, try it out, and if it works for you it's good. If it doesn't, it isn't worth hell-room and I don't care who sponsors it.

Like any other form of rifle shooting, offhand marksmanship is mainly a matter of form. The purpose of good form is to avoid involving any more of the human body in the action than is absolutely essential. The standing or offhand position, involving practically the entire human frame, calls for more good form than any other. The best form, then, for any particular individual is simply such modification of good form as may be necessary to adjust the details to the peculiarities of the individual.

No matter how beautiful, your cheekpiece must fit your face to insure comfort and the same position each shot

A rifle equipped with a set-trigger can be discharged within 0.04 second from the time the eye registers a sight position on the target. During that time the front sight will travel a short distance over the bullseye and if the marksman is watching the direction of his "weave" he can anticipate that motion, "touching her off" as his sights move into the desired point of impact.

A rifle equipped with a three-pound trigger cannot be fired within any practical time interval and the error in "weave" cannot be anticipated with such nice accuracy.

We are taught to hold and squeeze, holding the pressure on the trigger as the bullseye moves away and increasing the pressure when the aim is right. That is entirely practicable when firing prone, reasonably practicable in the sitting position, doubtful when kneeling and, in my opinion, utterly impracticable when firing standing.

Because of this doctrine too many offhand shooters are accustomed to holding in the general direction of the paper and jerking the trigger as the bullseye rushes past. The ones who *don't* do that are the boys who break ninety.

Since, with the three-pound trigger, we cannot always fire at the proper instant it becomes necessary to do something else and that something is concentration upon grouping and the corollary—shrinking the group. So you don't try to hold in the X-ring or center the bullseye inside the aperture or quarter the black with the cross-hairs. You try to "spin" as small a circle as you can and get the shot off while the front sight is still somewhere within the lowest limit of error established by your skill. Then your shots make an evenly distributed pattern with the Law of Averages contributing a few nines and tens to compensate for the sevens and eights which are the normal limit of your group.

So far as I can determine, there is roughly a minute of angle difference between the positions and if you can keep all of your shots inside the nine-ring at one hundred yards you are pretty good offhand.

Right here, I should like to spike the fallacy that poor equipment is good enough for offhand shooting. I have read articles in which experts have advocated using defective reloads "for offhand shooting," on the ground, I assume, that no one can hit anything in that position anyway. It is a matter of arithmetic. If the rifle or its fodder adds another inch or so to your group, you're adding an extra and unnecessary handicap. That group will be plenty big without any help.

The rifle must fit so that when it is mounted at the shoulder the sights will be in perfect alignment without any extra tension in the neck muscles. Don't be satisfied until you can mount the piece, WITH YOUR EYES SHUT AND YOUR HEAD HELD NORMALLY, and get perfect alignment when you open your shooting eye to begin aiming.

The rifle should have a cheekpiece carefully fitted to YOUR face, not some work of art created by a gunsmith who never saw you. The cheek bone should rest on the top of the cheekpiece and a slight swell at the rear will make a more comfortable fit as well as insure placing the face in exactly the same place each time. The forward portion of the cheekpiece can be sloped to permit prone work.

The purpose of the cheekpiece is to support the face, to assist in holding the butt-stock and to prevent, insofar as possible, the upward flip of the muzzle at the discharge.

The rifle should not be overly heavy. Modern sighting equipment and modern ammunition does not demand great barrel length and, since additional extension of the left hand is advantageous, excessive weight is actually a handicap. I weight 175 pounds, am compactly built and in fairly good physical condition. My offhand rifles weigh less than ten pounds.

The buttplate is quite important. Since we cannot use a Swiss plate, we must have a substitute that will do two things: 1. Seat in exactly the same place at the shoulder each time, and 2. Not slip out of position or demand any attention during firing. I like the "NO-SLIP" pad and I get better results if the butt is directly against my shirt without any shooting-pad.

The sling should not interfere with the left hand. I prefer to take it off but if the rules require the same equipment in all positions (as they should) it should be loosened. Never try to hold the sling between the forestock and the hand.

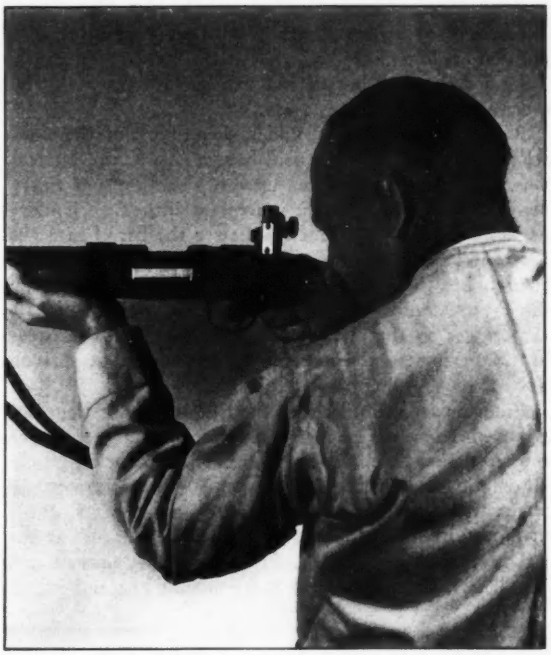
The most important feature is the trigger and its auxiliary, the pistol grip. The trigger ought to be as nearly perfect as it can be made. A two-stage pull is no disadvantage provided the final release is smooth and free from "slap." I am playing with a Winchester 70 in the .257 Roberts and the "no motion" trigger is O.K. On the other hand I have an Enfield .30-'06 with the regulation two-stage pull and the only drawback is the final slap which has cost me a lot of good shots.

The pistol grip ought to be nearly perpendicular to the barrel and as close to the trigger as your hand will allow. Give your trigger hand all possible support.

For most riflemen the best standing position approximates the "READY" of the soldier—feet well apart, weight balanced easily on the hips, chest free to expand and head normally erect, the entire body quartering away from the target. What you are trying to do is take the natural "weave" out of the body.

Now mount the piece at the shoulder, the barrel pointing upward at an angle of thirty or forty degrees and SHUT YOUR EYES! Lower the barrel into the horizontal position, open your shooting eye and check your position. If the sights are not on the paper, correct by MOVING BOTH FEET. You are trying to hold the rifle with the very minimum of effort. If your stance puts the sights to the right of the paper your group will tend to go low and left because, subconsciously, you will overdo the correction. If the sights are to the left of the paper the group will tend to go high and right. This, I believe, is one of the constant errors which I used to try to correct by changing my sight setting.

It is a curious phenomenon, reported by many offhand shots, this necessity for changing sight settings between the prone and standing position. For many years I blamed my spectacles because of an astigmatism in my right eye, utterly ignoring the fact that I was using a peep rear sight. Then it dawned on me that I had some constant error in my *stance,* and it wasn't all in my eye.



It may not work for you, but extending the left hand a bit has helped some off-hand shooters to better scores

If you attempt to correct your stance by shifting one foot or by readjusting your weight, you will throw an extra strain on your body. This will expand your group which will *still* tend in the incorrect location.

Now check your hold on the rifle. The forestock should lie in the palm of the left hand with fingers relaxed. The left arm should be extended as far as possible without setting up a muscle tremor. If the left hand is too far back you will get a vertical "jerk" that cannot be corrected by the cheek piece and the shot will go low. If you hold too far out you will develop a muscle tremor that will play hell with the last five shots. The left hand should be forward of the natural balance of the rifle so that the buttplate will tend to drop rather than rise.

Park your left elbow directly under the barrel just as the good prone shots do, and for the same reason. If you slope your forearm to the left as many offhand shots do, your group will tend to go high and right, most of it in the "miss-ring."

As far as I am concerned the sole function of the right hand is to squeeze the trigger. I don't hold the rifle with it. The rifle lies in the palm of the left hand and is stuck to the shoulder by butt-plate friction. I realize there are other schools of thought in this regard, but so it goes for most all points of offhand shooting. Bear in mind this is only my way.

So far as I can determine there is no advantage in raising the right elbow above shoulder level as if you were a contortionist. And it doesn't hurt any to do it unless the position strains your right arm. The important detail is that raising the right elbow forms a pocket at the shoulder and you want exactly the same pocket at each discharge. I raise my elbow to the level of my shoulder because it makes a satisfactory shoulder pocket without putting that unnecessary strain on my right arm.

Check your stance carefully and get your body into position holding the rifle in the "READY" position. Take a deep, slow breath and exhale. If you can't feel a definite "tingle," do it again.

Raise the rifle to the shoulder, doing most of the work with your right hand. It will have a chance to rest later on. With the barrel sloping upward at an angle of thirty or forty degrees, seat the buttplate into the shoulder pocket and take your breath. Lower the barrel into the horizontal position and, AT THE SAME TIME, exhale enough breath to make your lungs comfortable and no more and, ALSO AT THE SAME TIME, tighten up on the trigger so that when the sights come on the paper ALL OF THE SLACK AND CREEP IS GONE AND YOU NEED ABOUT SIX OUNCES TO FIRE.

From now on, until either the rifle is fired or the piece removed from the shoulder unfired, the trigger finger must continue to increase pressure, its action being purely automatic and mechanical HAVING NO RELATIONSHIP WHATEVER WITH THE HOLDING OF THE SIGHTS UPON THE TARGET. Don't attempt to increase pressure as the sights center the bullseye and to hold as they move away. You'll jerk the trigger and throw a shot low and left if you do. If there is anything wrong with your hold on the rifle or you think it isn't loaded or you forgot to pull the telescope back or the wind puffs or you get panicky, TAKE YOUR FINGER OFF THE TRIGGER, PUT THE GUN DOWN AND START ALL OVER AGAIN.

If everything goes well, and it usually does, you will attempt to hold the front sight or the cross-hair in as small a circular area as possible so that when the discharge occurs the bullet will strike somewhere within your minimum group.

If the rifle is not automatically fired by the increasing pressure of the right hand within eight or ten seconds, take your finger from the trigger, lower the piece, flex your left arm and START OVER AGAIN—FROM SCRATCH!

If you move your feet, and there is no reason why you should, check your stance before trying to fire.

CALL YOUR SHOT even if shooting alone.

The idea is to force you to concentrate on aiming until the bullet has left the barrel and in that way to compel careful holding and prevent those "perfect hold strays."

All of this may sound complicated and artificial, but it isn't. The expert running shot uses the same technique, modified to fit revised conditions. The difference is speed and the fact that the stance is always bad.

THE NEW RIFLE IN THE NEW ARMY

(Continued from page 13)

efficiency is by geometric, rather than arithmetic, progression as we move to the rear. And don't forget this: Where we had ten pumps before to control the flow of water, only five are now necessary. The others we may hold in reserve, or send to other fronts, or harass the enemy by threats of internal movements.

Going back to our old system, doesn't this suggest a square to you?—a row of men stretched along the battle front; behind them, as on a chessboard, the men who supply them with the various items of equipment they require; behind them, still another row, this one distributing supplies (the term now includes artillery support and similar combat service), not just to the front line but also to meet the necessities of life and preservation for the men in the second echelon; behind them, still another—each tier of about the same size and weight as the one before it, like the rows of polka dots on your tie.

Now think of the first line as needing only half as much as it formerly did to do its job. You can see the second line thin itself to half, and so on, until the arrangement resembles duckpins. Even one who knows nothing of military detail-work can readily realize the endless changes in plans and organization which went into converting the old machine into the new "streamlined" army.

To assign *all* this to the two "M-1s" is unwarranted. We now have better motors and more of them, better radios, telephones, and all-round communications equipment, more and better aerial observation, stronger and more accurate heavy artillery, and a dozen other factors which work toward a faster, smoother, deadlier, "streamlined" army than we had in 1918. But the semi-automatic rifle merits the lion's share of the credit.

America's civilian riflemen are America's potential doughboys. Many of them have begun to wonder, after hearing so much about the astounding success of Hitler's panzer divisions, whether the old reliable shoulder weapon hasn't been shoved into the back seat. Many who have taken pride in the realization that they are each a brick in America's Spartan wall have begun to fear that their potential role when called upon to act will be of practically negligible importance, in view of the sweeping changes which admittedly have taken place in modern methods of warfare.

True, a rifleman cannot stop a tank. But if he is there in his foxhole, it is practically impossible for anything except a tank to go by him on the ground. In other words, he makes the tank necessary. Accordingly, if the tank threat of the enemy is neutralized (and sooner or later—most likely sooner, it will be), the doughboy is still the bulwark. Also, remember that tanks cannot hold ground. They are extremely vulnerable except when in motion. They cannot defend; they only attack. You win ground by attacking it, but you hold ground by defending it. And the fellow who wins the war not only must take the ground; he must also hold the ground after he has taken it. It's still true that "it takes the good old infantry to occupy the ground."

Take this observation for what it's worth, from a young know-it-all:

When and if any territory of the Western continents is invaded, any bridge-head which may be established will be confined for a considerable time. Any effort to put tanks ashore within this bridge-head can be neutralized through the maintenance of air superiority—a simple matter with European and Asiatic bases so far away and our own as close as we care to put them. Any enemy tank action within our own territory is thus nipped in the bud. And with the tanks out of the picture, the spotlight shines even brighter than it has throughout the war years of the past on the American doughboy—a taller, stronger, healthier soldier than he was in 1918, with double his former shooting capacity; in short, ready to take on twice his own weight.

Last Ditch Shooting

By J. V. K. WAGAR

THE RIFLEMAN wanting to shoot—game, predators or in defense of his home—is now pretty much on his own. Ammunition and components have been partially or completely cut off by restrictions in manufacture, transportation or merchandizing. Therefore, consideration might well be given to some possible improvisations on cartridges to fire in whatever arms the rifleman possesses. As he prepares to shoot the components he can find and misses the cartridges he once could buy so easily, the modern rifleman realizes how dependent he has become upon the intricately organized civilization that he tries to escape upon various hunting trips.

In flintlock rifle days the only standardization necessary was the cutting of a mold to produce bullets which could be assuredly seated at the bottom of one's muzzle-loading barrel, a task which any village gunmaker could accomplish. Flints could be fashioned by the shooter and powder could be measured in the hand or in reamed-out ends of cow horns or deer antlers. Cap-lock rifles and pistols brought a dependence upon manufactured caps, and these evolved into various sizes which were standard for different sizes of nipples.

Metallic cartridges and guns to shoot them demanded the uniform volume production possible only in great factories. Increasing velocities and pressures, which finally resulted in needs for exact headspacing, fitting and heat treating, drove most small manufacturers into the land of forgotten things along with the village gunmaker.

Among the rim-fires the interchangeability of many cartridges is so well known that the possibility of using .22 BB and CB caps, .22 shorts, .22 longs and .22 long rifles in rifles chambered for the .22 long rifle cartridge needs no discussion. Similarly there were once .32 extra short, .32 short, .32 long and .32 extra long cartridges and nearly the same range of lengths and corresponding powers in .38 and .44 rim-fires. Where combinations of such cartridges and guns exist, some shooting can be done in the last ditch and further improvisations can be made. Having a flock of .38 extra long R. F. cartridges to use and no rifle chambered for them, I dressed a triangular file to make a smooth-cutting chambering tool and with this lengthened a .38 long R. F. chamber the small amount required to chamber the extra long cartridge.

Many rim-fire cartridges larger than .22 caliber have been made for such a long time or have been stored in such damp places that uncertain firing results. One can, however, increase the firing certainty of old black-powder rim-fire cartridges by placing them near a radiator or stove which varies hourly or daily in temperature, and which maintains a dry atmosphere nearby. The warming and cooling expand, then contract the entrapped air within cartridge cases and, combining with changing atmospheric pressures, will gradually dry out powder and priming compounds on all but the most tightly crimped cartridges. The same treatment has proved successful with old Berdan primed, bar anvil, inside cup primed, and other old Sharps and similar cartridges. In like manner one can increase the firing power of old stocks of black-powder and early smokeless powder primers.

In any drying attempts, warmth and dry air of fluctuating density are needed rather than great heat. Such heating and drying treatments should not be used with *smokeless* powder cartridges in which dangerously high pressures may result, and even slightly augmented pressures may rupture the metal envelopes of some ancient rim-fire cartridges which have weakened enough through age to make shooting glasses desirable.

Cartridge cases for obsolete or non-standard sizes are most easily located through watching *Arms Chest* advertisements in THE AMERICAN RIFLEMAN, or through placing in the same medium want ads for specific cartridges. Then, too, many substitutes and conversions can be made among central-fire rifle and pistol cartridges and the guns which shoot them. Those having access to the November, 1934, AMERICAN RIFLEMAN will find on pages 13-15 an article entitled *Finding Fodder for the Old Ones,* going with considerable detail into such substitutes. Some of these will be repeated in up-to-date or abridged form.

> *Author's Note*—Readers are warned that some of the practices mentioned herein border upon the dangerous; that only the *exact* combinations mentioned have proved safe; and that *similar* combinations may be extremely dangerous. Before any shooting occurs, they should be referred to shooters with undoubted intelligence and long experience with reloading for many cartridges and guns.

Maynard .22-10-45 and Stevens .22-15-60 barrels in useful condition can be rechambered for .22 Hornet cases with enough neck tolerance to permit seating the slightly larger cast bullets used in these earlier .22 central-fires. Obviously the higher-pressured, higher-speed, regular Hornet cartridges will not give safety or durability in these older rifles with soft steel barrels, large, often loose-fitting firing pins and actions made for lower pressures. .22 W.C.F. black-powder loads will, on the other hand, give useful accuracy in some Hornet rifles, but should not be followed with Hornet loads unless barrels are positively free of fouling.

In .25 caliber, .25-25 Stevens cases can be shortened for .25-21 chambers, and barrels for either size can be cut off and rechambered for the shorter .25-20 Single Shot or the still shorter .25-20 W.C.F., in accordance with which cases or cartridges are most available.

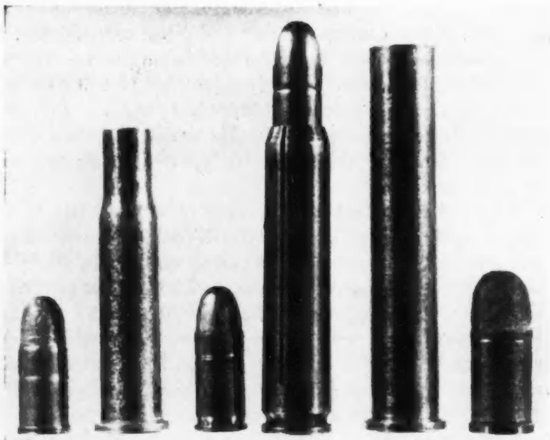
Marlin .25-36 cases are no longer listed by manufacturers, but cases satisfactory for reloading can be made from .25-35 W.C.F. cases fired with a moderate charge of black powder behind a wad of soap in the case neck.

If the shortage is in the other direction, the rifleman with a full length .25-35 sizing die or snug 1894 Winchester tool can shorten the necks of .25-36 cases and resize them to .25-35 shape. Some of my most durable .25-35 cases are marked .25-36 Marlin on their heads.

Scattered among hardware and sporting goods stores of the country are thousands of early .303 Savage cartridges loaded with full-metal-patched or soft-pointed bullets and an early type of square flake German smokeless powder. The primers were corroded into inactivity by the instability of the powder, but when fired with fresh primers in newer .303 Savage or .30-40 cases in the proper rifles the powder and bullets are very useful. Such old .303's can be broken down by the use of bullet pullers made by some reloading tool manufacturers or can be opened by filing a side of the long .303 neck with a coarse rasp quickly thinning the brass to an extent permitting the bullets to be broken out sideways and the powder to be poured into newer cases.

Some dealers have in stock .30-1903-220 cartridges which they have learned will not stay sold to men who try vainly to fire them in shorter .30-1906 chambers. Such .30-1903's are often sold at moderate prices and contain cylindrical bullets which shoot admirably from .30-40 cases and rifles, with properly reduced powder charges. .30-1903 cases may be shortened in the necks to adapt them to .30-1906 chambers, and if the barrels are not too tightly throated the .30-1903 bullets can be fired from the shortened cases, seated far enough forward so that the bullet bases are within the necks at the time of firing. I am convinced that such bullets should not be fired in any full power charge in which the bullet bases are seated back of the neck.

One finds some early stocks of .22 Savage H. P., .256 Newton, 7mm. Mauser, World War I .30-1906, .30-30, .35 W.C.F., and other cartridges which have been loaded twenty years or more with necks split from brass strain or deterioration. Frequently the primers, powders and bullets are worth transferring into better cases.



Sub chambers and pistol cartridges: (L. to R.) .32 S&W; WRACo .30-30 adapter; .32 Auto Colt; Marbles .30-1906 adapter; WRACo .405 Winchester adapter; .41 short Colt cartridge

Winchester Special .32 cartridge cases can be expanded into .38-55's, and cartridges of the whole .38-55, .32 Win. Spl., .32-40, .30-30, .25-35, .22 H. P. series, which have the same head size and approximate length, can be reduced to the next smaller caliber, using tools no more expensive than muzzle dies in most instances.

With full length dies and suitable power, other desirable cases can be formed. C. Lee Curtis, a Portland (Oregon) friend, made long wearing .30-40 cases of .405 empties I formerly sent him. Similarly .35 W.C.F.'s and .375 Holland rim cases can be made from .405 cases, .32-40 Remingtons can be sized full length from .30-40's, and .38-50 Remingtons made from .35 W.C.F. or .303 British cases.

A local shooter recently stated that he was expanding some solid head .40-70 Sharps B.N. cases shooting in his .45-70 Springfield, and a Sacramento (California) correspondent and several other acquaintances are working over .40-70 W.C.F. and .40-82 W.C.F. cases to fit .40-70 Sharps B.N. chambers.

Sharps .40-70 straight cases are easily made from .35 W.C.F's, .38-72's, and .40-72's; and .40-70 Ballard cases from .40-85 Ballard and .38 Express cases. Similarly .38-40's can be expanded to .44-40 size or .44-40's necked down to .38-40 dimensions.

It will be noticed that most of the cartridges thus far covered are in low and medium power classes and are rimmed. With such cartridges one can compare case diameters by means of micrometer calipers, considering especially case diameters just ahead of the rims, and when cases of suitably similar diameters are found they may be then expanded, sized and trimmed to a useful shape.

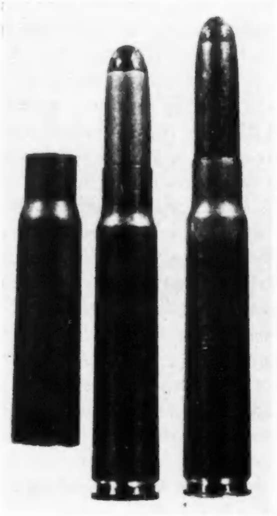
Belted-head, high-powered cartridges headspace with certainty in arms made for them, and so, as a friend does it, the .375 H & H is not difficult to neck down to the .350 G & H. However, the high pressures in these and similar cartridges demand exact knowledge and precise working of all factors involved.

With rimless high-powered cartridges there are fewer possibilities for the average shooter with average equipment. One should be particularly careful with the various 8mm. rifles, even the so-called good ones. An 8mm. x 56 Mannlicher Schoenauer cartridge will rupture in 8mm. x 57 Mauser or Mannlicher Haenel chambers for lack of proper headspaced support. 8mm. x 57 Mauser cartridges with .323 inch bullets at high velocities are a stiff load for .315-.317 inch Haenel barrels. It is best to leave these alone unless advised by someone who really knows them, and who can prove his knowledge with measurements carefully taken.

Many shooters recommend the use of the .32 S. & W. revolver cartridge in .32-20 revolvers and rifles. The combination is safe enough but is not particularly accurate, fouls chambers badly when black-powder .32 S. & W. cartridges are used and gives bad gas leakage to the rear. .32 S. & W. cartridges do, however, work very well in Colt, Savage and some other automatic pistols, using them as single loaders in the chamber only. They will not work through the magazines.

The use of the .38 short Colt, .38 long, and .38 Special cartridges in .38 Special and .357 Magnum revolvers is well understood. .41 short Colt C.F. cartridges with outside lubricated bullets are usually more accurate in .41 Colt revolvers than the inside lubricated .41 long Colt cartridges commonly seen. The .44 S. & W. Russian cartridge gives good accuracy in the .44 S. & W. Special despite one fellow who recently told me that he didn't want any foreign guns and cartridges like our famous old .44 Russian. In the very few single-action Colt .44 S. & W. Special revolvers I have owned and shot, the old .44 Colt cartridge would shoot and extract with useful satisfaction.

Old black-powder .45 Webley cartridges can be fired in .45 Colt revolvers, for they are weaker loads which do not endanger the easily burst cylinders of these thin chamber-walled revolvers. .32-20 W.C.F. shot cartridge cases with brass as long as regular cartridges, bullet and all, make passable .32 Ideal cases. I know many old timers with .45-70 rifles who have never known that there was a distinctly different .45-60 W.C.F. rifle, but who have always thought of and used .45-60 cartridges as light loads in their .45-70's, just as they have used .22 longs in their rifles chambered for the .22 long rifle cartridge.


L. to R. 8mm. x 56 Mannlicher-Schoenauer case that burst in 8mm. Mannlicher Haenel, badly burning chamber and bolt face. The cartridge before firing, compared with the 8mm. x 57 Mauser

The use of supplemental chambers (or adapters) of Winchester or Marbles make is quite well known, permitting in one or other of the two makes, the use of the .22 long rifle cartridge in .22 Savage High Power and .220 Swift; the .25 Auto Colt cartridge in the .250-3000; .25 Remington; or .25-35; or the .25 Stevens short R.F. in the .250-3000. The .32 S. & W. can be used in the .30-30, .303 Savage, .303 British, .30-40 or .30-'06; the .32 short or long Colt in .32-40 or .32 Win. Spl. rifles; the .32 short Colt in .30 Rem. or .30-30; the .32 Auto Colt cartridge in .30-40, .30-'03 and .30-'06, .32 Win. Spl., .303 British, .303 Savage, .32 Rem. and 8mm. Mauser rifles. The .380 Auto Colt can be used in the .35 Rem. or .35 W.C.F., and once Winchester adapters were made to shoot .41 short Colt cartridges in .405 Winchester rifles. Winchester adapters must commonly be used as single loaders, but the Marbles type will work through many kinds of magazines.

For light loads I have often used .41 short and .41 long Colt cartridges in a Winchester single-shot .38-55. The rim upon the .41 revolver cartridges is too narrow for the extractor of the .38-55 to engage, so I cut a notch in the barrel breech just above the chamber, deep enough to permit hooking a pointed object beneath the .41 cartridge rim when extraction is desired.

Old black-powder primers passed up by other purchasers can be used to fire smokeless powder charges if a few grains weight of fine black powder is mixed with the smokeless. Pressures must, of course, be limited to what thin black-powder primers can stand. Two of the sweetest shooting, short range loads I have enjoyed started with old UMC and WRACo 2½ black-powder primers, 3 grains of FFFG black-powder priming, and 12 grains of DuPont I.M.R. 1204 in front of the Ideal 257231 111-grain bullet in the .25-35, and 13 grains of 1204 in front of the 154-grain Ideal 308241 in the Krag. And yet 1204 isn't supposed to light well in large cases or light loads!

Occasionally other primer and case combinations can be worked out to keep one shooting when supplies are limited. One can keep both large and small primer cases in .25-20 S.S., .38 Colt Auto., .38 Special, .38-40, .44-40, .45 Colt, .25-35, .30-30, .32-40 and .45-70 to mention just a few. And one can ream small primer pockets in case heads with plenty of metal, up to a larger size for which one may have plenty of primers. Getting possession of some large lots of Winchester No. 225 primers, which mike .225 inch instead of a usual .210 inch for large primers, I have been using these in .30-.40 and .45-70 cases reamed out to fit them, and in WRACo .30-'06 cases of a type for which these primers were made.

One can find many light and medium rifle loads among various reloading handbooks based upon Bullseye and Unique powders, two of our most irritable and most pressureful powders if improperly used. With other powders available the intelligent rifleman, fully aware of sectional densities, bullet resistance factors, probable combustion rates and primer effect can develop safe loads after complete study of his problem, aided if possible by some experienced reloader.

Some improvisation can be made among shotguns. A Stevens Over/Under .22/.410 that I owned two years ago chambered and shot satisfactorily not only the 3 inch .410 for which it was manufactured, but also the 2½ inch .410, the old 2 inch .410, and an assortment of black and smokeless .44 XL's and .44 W.C.F. shot cartridges.

The Marlin Model 90 .22 Hornet/.410 Over/Under that we now use for a light gun is so cut on a taper for extractor rims that it will chamber all .410 shells perfectly, but .44 XL, .44 Game Getter and .44 W.C.F. shot cartridges must have their square-cut rims bevelled by revolving them against a file—either in a lathe or in the hands. With a lot of these odd shot cartridges the younger boy and I have been reducing the magpie population this past spring, thus saving the regular .410 shells for more serious work.

These are samples of cartridge substitutions that can be made if need be. They are recommended as possible rather than desirable. Here the gun nut comes into his own, for only the fellow who has studied and worked with cartridges for some time is likely to think of all the requirements for safety. He will be a good fellow to consult, or to be, if much of the future depends upon last ditch shooting.

NO MORE KNIVES. A new War Department ruling forbids the acceptance of knives and similar weapons donated to the Army. The Ordnance Department is procuring trench knives of new design for issuance to Army personnel requiring them.

Mister Spermophilus

By RALPH C. MORTON

IN SPRING IT IS SAID "a young man's fancy lightly turns to—" well, what difference does it make to us older chaps? Yours may turn to the golf course, the trout stream, bock beer or what have you. Mine turns to my den and the row of rifles awaiting my pleasure.

Among them hangs a fine .22 caliber Walther that cost enough to buy the Mrs. a fine fur neckpiece. But what true lover of the rifled tube could permit such feminine frivolity when for a mere hundred and sixty dollars Mr. Stoeger will accord you the favor of owning the very finest in a .22 caliber the Nazis know how to construct. Single-shot, repeater or automatic; take your choice.

In the grasslands of the great prairie country springtime means "gopher time". Not the little striped chappie of the eastern states, but the big brother of the plains country who runs into weight and deviltry and causes more damage to the grain crops than can ever be estimated. He bears the awesome and euphonious designation of *Spermophilus* and carries his title with the same eclat and equanimity as a Prussian officer bearing his medals.

During the last of March or early April the warm spring sunshine entices the "wheat squirrel" from his burrow. The long period of hibernation is at an end and it is time to open up for the season's business. The young are born the last of April or the first of May and a gopher in fine fettle can produce a family to turn Mr. Mussolini green with envy. He will hole up again the first part of August but during the time he is with us he is busier than a one-armed paper hanger with his pants slipping.

Probably it is a natural pride in the successful production of his numerous progeny that causes the gopher to sit erect that all and sundry may see and admire and that earned for him in this section the name of "Picket Post". Anyway the "Picket Posts" make fine targets if not too frequently shot at, as they sit erect for a sufficient time to permit careful holding. They are, however, very tough and hard to kill quickly. Considering their size I think they can absorb more lead than either a prairie dog or a marmot. Often shot nearly in two, they will reach their burrows and drop from sight. Of course, a head or spine shot will anchor them but an explosion in their boiler room seldom scores an instant kill. When mortally wounded they usually wave their tails; although otherwise they are carried very low.

Gophers may at times attain a length of twelve inches and in color they are a mixture of tan and gray, blending well with the plains soil and the prairie verdure. Their underside is always lighter, varying from a pale yellow to a somewhat darker hue.

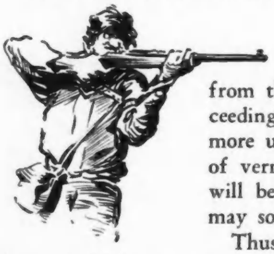
They have a distinct "Yip" but when fighting emit frequent high-pitched squeals. Their feet are well clawed for digging, their teeth typical of the squirrel and marmot family and their diet is vegetable whenever possible. They are said to be edible and from the variety of their diet I would not hesitate to accept them as food if properly prepared.

Upon their appearance in the springtime there is a considerable falling off in Sunday school and church attendance. Small boys, older ones and grandpas sally forth, their pockets filled with ammunition, anti-prohibition and their heads with an ambition to emulate the marksmanship of Kit Carson.

The .22 long rifle hollow point is the cartridge most widely used for gopher shooting and it would be a surprise to shooters in the east if they knew of the vast number of .22 caliber rifles owned and used in the west almost exclusively for gopher shooting. Men and women, boys and girls have their own rifles and all enjoy the sport. They also know that they are destroying a real menace to the grain crops and that their sport is the farmer's gain.

No other locality I know of buys and uses so much .22 caliber ammunition as is sold and consumed in the states where the "grain squirrel" abounds. This year it will be brought home to the average farmer as never before the debt he owes those riflemen who each year sally forth to shoot and rid his fields of a destructive pest.

This year Mr. "Picket Post" is going to reign comparatively undisturbed, for many of the boys who used to pick off his relatives now have their rifles trained on a Jap or some member of the tribe of Schickelgruber.



Most members of our rifle clubs in this section indulge in gopher shooting in season and when they are afield the toll they take from the gopher population is exceedingly heavy. They are doing more useful work on another sort of vermin now but let us pray it will be finished quickly that they may soon return.

Thus this spring and summer the farmers of the western wheat growing states are confronted with an additional burden in the matter of vermin control because of the war. The "wheat squirrel" is a good example.

A gopher is estimated to destroy at least a bushel of grain during the period he is above ground each season and unless his numbers can be controlled the grain loss will soon amount to a huge total.

In years past the Federal Government, the state and also the counties have joined to furnish the farmers with gopher poison, for their experts well know the necessity for constant control of the gopher menace. For over thirty years I have watched the fight and when vigilance is relaxed for any one season that territory the following year becomes very heavily infested. But the usual sources of supply of poisons will either be greatly curtailed or will entirely cease to function. Furthermore, owing to the lack of gas and tires the shooters from the cities will be unable to take their large toll of the gopher crop even if they could obtain .22 caliber rim-fire cartridges which are now so scarce that few may be obtained at any price.

Many farmers yearly adopt the expedient of attaching a hose to the exhaust pipe of their car and then by shooting the deadly gas down into the gopher burrows they exterminate large numbers of the rodents. This, however, is a slow process and with the present shortage of farm labor it will hardly suffice to control the situation.

Forty years ago I felt amply equipped for any foray against all classes of vermin with a .22 caliber Flobert, built of the finest pot metal that ever cooked in a Belgian foundry. Suppose it did misfire at times, that the trigger had a pull like a ward heeler and that the sights were crude. In my youthful mind it epitomized the ultimate in guncraft.

But times have changed. Floberts today rank with the Model T in the auto line. So if we part with much coin of the realm for beautiful gas buggies why not spend some for something extra "toppy" in the .22 caliber.

Being the proud father of three boys it is, of course, essential that I initiate them in my favorite sport. So with a further depletion of the family exchequer they are equipped with a Winchester 75, a 57 and a Remington "Targetmaster". My own Walther is equipped with a Zeiss scope.

Though ill equipped to compete with my elite equipment, my boys one day went afield with me to see what we could see. To the youngsters a hunt is always a new adventure while to me it brings memories of how in the long, long ago my father took me afield that I might learn the mysteries of the rifled tube, the way of the stalk and the satisfaction of a successful and humane kill. Gone are those days and gone too is the teacher. To me he has left pleasant memories and I am sure that he wishes that I impart to these sons of mine the same lessons given to me, that they now may be of keen vision, valiant in their use of arms and worthy to become members of the great assembly of real sportsmen.

Gophers in our country are not hard to locate and when we find a few score we use ammunition in a way to warm the head of a Dupont.

Far out in the field are the "Picket Posts" that make the real shots but we take them at any range within reason, knowing that we have saved some farmer a lot of hay or a bushel of grain. Shots can be had at any range, though most are taken well within a hundred yards. The Hornet would be ideal were it not for the fact that hundreds of rounds may be used in a day, which runs into more cash than the average shooter can afford.

The day wears on and then comes the mealtime. We lay in the shade of the car and from the hamper comes bottles of cool milk, sandwiches and all the trimmings. Between bites we talk of the hits we made and somehow and someway omit mention of ones that escaped our try.

Each keeps his own score and a fisherman's count is just taboo. Riflemen should always be gentlemen and gentlemen do not lie. So then at eventide we count the scores and lo and behold—Page Mr. Stoeger! Shades of Davy Crockett can it be? How can a seven dollar "Targetmaster" compete with a Walther costing twenty-five times as much and beat it at that? Well, the Heinies know by this time that our own arms companies can still build guns. Guns that can outclass in performance anything that the "Hitlerites" have ever been able to produce. They have done it before and they are doing it again. But don't let Mr. Stoeger know. He might offer to return my money. But frankly when any of my boys can beat me at my own game I have about decided that as the coon said, "I ain't so good as I useter was".

Ordnance Quotes

CONSERVATION: The special section of the Office of the Chief of Ordnance, comprised of industrial engineers, which receives and evaluates suggestions for improving Ordnance specifications and drawings, has achieved the following results, among others, through trying out new ideas:

An adapter booster, used in artillery ammunition, weighing only a few ounces, formerly manufactured from bar stock on automatic screw machines, was changed to pressed steel with resultant saving on a single order of 210,000 man-hours and enough steel to produce 3,000 one-ton bombs.

Primer tubes, also a few ounces in weight, were changed from brass tubing to steel stamping, saving 30,000 tons of brass—enough for all brass requirements for 184 destroyers. Two million fin lock nuts were changed from forgings to stampings, saving 100,000 machine-hours, and enough steel to manufacture 11,500 M1 rifles. Cartridge tank, changed from aluminum to steel, saved enough aluminum to produce 550 bombers.—From Army Ordnance Assn. Bulletin.

The Rifled Shotgun

By THEODORE EATER

The rifled shotgun is still somewhat of a rarity in the United States, and very probably now a rarity in foreign countries too. Few gunmakers or sportsmen have ever given it a thought; still fewer have made or imported one and tested it thoroughly.

Rifling is, in my opinion, the only successful way to reverse choke a gun. It is naturally not intended for anything but close range shooting—generally speaking around twenty yards, the range of about ninety per cent of all upland game kills. The pattern is more open than a cylinder bore, varying from slightly to extreme, whichever is desired. This is accomplished by the twist, and to some extent probably by the depth of the rifling. It is very important that the gunsmith know just what twist and what depth to put in the barrel to give the exact pattern wanted. The rifled gun is not like the smoothbore, for, if the pattern does not suit, it should not be rebored. The diameter of the bore is expanded to twice the depth of the lands and a reboring job would remove too much stock to give proper compression for power.

Thus, if contemplating having a gun rifled it is advisable to insist on a competent gunsmith who has done considerable experimenting with the twist and depth of the rifling, shells, etc. If the gunsmith exercises care in the rifling job, he can get almost any pattern wanted for any distance up to about 35 or 40 yards.

It might also be noted that the rifled shotgun has some very good wartime possibilities. It handles buckshot as well as any other shot, giving a much more open, even pattern than the smoothbore. From all indications, it would be more effective for riot duty at as great a range as any smoothbore. Also, as the rifled guns are usually all cylinder bored, they serve as very effective, short-range, high-powered slug guns, the rifling increasing the range, accuracy and power.

Prior to the Spanish Civil War a few guns, made in Eibar, Spain, were imported for eastern ruffed grouse shooting with seemingly very satisfactory results. The few I know who own these guns swear by them. But like most other fanciers, they all have their own ideas as to just what sized pattern at just what range is most effective.

Some who use double-barrel guns have one barrel rifled, the other a smooth cylinder bore; others prefer one modified barrel, while still others insist on having both barrels rifled, each with a different twist. One double-barrel that I know of, with 26-inch barrels, both rifled, throws a 54- and 80-inch pattern at 20 yards, with a maximum range of about 30 yards.

Degree of choke is mostly determined by the twist of the rifling, which usually runs from one turn in 54 to one turn in 80 inches of barrel length: the sharper the twist the more open the pattern and anything sharper than one turn in 54 inches is likely to be too sharp for the charge to follow. At least, that seems to be the shortest twist that most gunsmiths want to use.

The Spanish guns were all rifled the full length of the barrel: this in all probability will have the most profound effect on spinning the entire shot charge. I have an article on an English gun, known as the "Paradox," which was rifled about 6 inches down from the muzzle. This gun was originally intended for big game hunting and it was found that the rifling increased the accuracy, range and penetration of the slug. However, some Englishmen began using it for grouse shooting and, according to this article, spoke very highly of its performance.

A suggestion was made to me on rifling the Cutts Compensator tube. This seems to be an improvement over the British idea and, if successful, would add a lot of color to the already popular Cutts Compensator.

The Spanish guns I spoke of are all rifled about the same as the American-made gun I own—nine narrow lands and wide grooves, the same general pattern as any standard rifle. However, when the gun is intended only for shot, it seems to me that it might be a big improvement to use about twenty lands and to cut the grooves concave. The concave groove should conform to the shot more readily and with no distorting.

Very few agree as to just how deep the rifling should be cut. I have never taken readings on the Spanish guns, but am told that they are very shallow, about .0025 inch deep. This does not quite conform to my theory that shot, even though it be tightly compressed while traversing the barrel, requires a deeper groove than a solid slug which would have plenty of contact with a groove .0025 inch deep. My contentions are that .004 or .005 inch deep would be best for a shotgun. When rifling my gun the cutting tool was set at .004 inch deep, but from micrometer readings the best that I can find is that the lands are .002 inch high as the diameter of the bore was increased .004 inch.

Some are of the opinion that wide lands and wide grooves are better. However, I believe that between the two the narrow lands and wide grooves do best. The shot mass is much easier to part with a narrow land than with a wide one, thus the shot is more readily compressed into the wide grooves and forced to follow the rifling.

The Spanish gun with one turn in 54 inches of barrel length threw an 80-inch pattern at 20 yards. My Remington 12-gauge automatic with 25½-inch barrel rifled with this twist falls short of the 80-inch pattern, but in all sincerity I do believe its effectiveness was increased by about forty-five per cent over what it was before rifling.

The Technical Division of The American Rifleman has analyzed the patterns made with my gun before and after rifling. It is to be noted that with a rifled gun the charge revolves and the pattern takes on a different aspect about every 2 or 3 yards. Thus, with a long shot string and a moving target it is practically impossible to score a complete miss, providing that the target is within the scope of the pattern.

"According to patterns received from Mr. Theodore Eater, his *rifled* 12 gauge spread as follows: 20 yards—3 drams and 1⅛ ounces of No. 10 with hard cork wads—

extreme of 60 inches with many big openings along edge of pattern and a dense center of 48 inches of fairly even distribution and no big openings. Eighteen yards—same load—extreme spread of 46 inches with several big openings and a dense center of 30 inches with many small openings. Ten yards—same load—even spread of 25 inches. Before rifling the cylinder bore—same load—extreme, 24 inches; dense center 13 inches. At 10 yards—same load with soft-hair wadding—even 24-inch spread—3¼ drams and 1⅛ ounces No. 4—even 24-inch spread; 3 drams and 1 ounce No. 8—even 25½ inches; 3 drams and 1⅛ ounces No. 9—even 27½ inches. All latter at 10 yards had no dense centers."

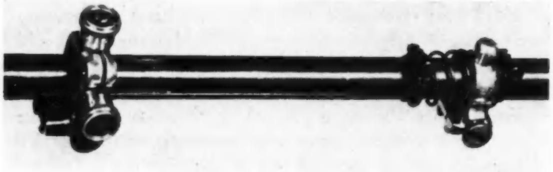
I have noticed that the soft-hair wadding seems to form a tighter seal and always appears to give a little more uniform pattern. The new skeet load with the crimped end seems to give a more open pattern.

So far as I know, the late John Philip Sousa was about the last of the shotgun enthusiasts who gave much publicity to the rifled shotgun. It is a subject with a very promising future that should be developed.

I am told that a recent survey of 10,000 actual cases, taken all over the United States, showed about eighty-five per cent of all upland game was hit at 17½ yards and stopped at 20 yards. With the rifled gun I have never "shot up" or mangled game.

I would recommend nothing smaller than a 12 gauge for rifling, and, truthfully, I have never heard of a single complaint from anyone who has ever used a rifled shotgun.

VARMINT RIFLE MOUNTS



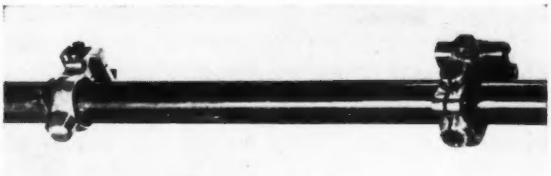
REGULAR LITSCHERT TARGET MOUNT

VARMINT SHOOTING is practically in a class by itself. Besides being extremely fascinating, it provides almost year-around sport. Also, there is possibly no other type of shooting so nearly like that confronting the present-day sniper. In fact, peacetime varmint shooting might well provide the basic training for the important role the sniper now may be called upon to fulfill in ridding the world of the most destructive of all pests.

To be efficient in the varmint shooting game a special outfit from rifle to scope and mounts is most important. The rifle must be as accurate as the finest target gun; it must be equipped with a first quality high-power scope and have mounts as dependable as the best of the hunting variety, but adaptable to the big target scopes. The latter are required for good definition and resolving power to pick out the canny, frequently well concealed targets. With present-day high-velocity cartridges insuring very flat trajectory, mounts do not need convenient finger-tip control. In fact, this is of secondary importance to mounts which hold their adjustment, once zeroed.

For some time now it has been an easy matter to select the rifle, cartridge and scope to meet these requirements, but mounts have been another problem. The nearest thing available commercially has been the Malcolm Type-C fixed base mounts. They have proven fully dependable on several of our best varmint rifles, but one of the most difficult of all mounts when it comes to sighting in. It would seem, therefore, that a compromise in rigidity and convenience for zeroing could be accomplished. That is exactly what we had in mind when we approached R. A. Litschert on the subject.

The first request was for a mount without the vulnerable, projecting micrometer thimbles, as these had already proven to be the most unreliable part of the special varmint outfit. The new mount is merely a "dehorned" version of the very good Litschert target mounts, with additional improvements at least for the sake of appearance. Final changes included smaller base clamp screws, neat zero lines on the coin-slotted windage and elevation screws, and a sufficient number of graduations on the ends of the threaded mount sleeves for making convenient and accurate zero corrections. These are steps in the right direction for this special purpose mount.



"DEHORNED" LITSCHERT MOUNT

Ideas for these mounts came from a study of some special handmade models, fitted individually to each rifle. These mounts make the big target scopes as rigid and fully as dependable for maintaining their zero as the best of the hunting models. Being individually fitted these precision mounts can be made with a minimum of clearance between the mount ring and scope tube. Besides, flat leaf springs in front and rear take the place of the dome-shaped projections housing the two coil springs of the regular target mounts.

The new Litschert mounts with their split-clamp feet fit on most any type of blocks. They appear to be the nearest thing to the ideal type made commercially for the varmint rifle and they are still available, thanks to this scope and mount maker.—A. H. BARR.

You Can't Hit 'Em If You Can't See 'Em

By F. C. NESS

ON A COMFORTABLY WARM SPRING DAY Hank and Joe lay stretched out on a knoll, and leisurely, yet alertly, scanned the broad expanse of chuck country.

"Heck," said Joe, "thought I saw one up close just then but I guess not. Those little devils are hard to see the way they blend with the country. Makes it easy to understand what the boys are up against in the South Pacific with those Jap snipers."

"From what I've read about those dark, dense jungles it is hard enough to see anything, much less a camouflaged monkey hiding in a tree," said Hank.

"That's when I'd like to have this little 3-power scope handy. I'll bet it would be a pippin for that kind of work," Joe declared. "But getting back to the business at hand, darned if I can see a single chuck."

Hank pointed out a little to the left where he had glimpsed a chuck hidden in the grass. "See him?"

"No, I can't see a thing. He must be at least 300 yards out," Joe complained, "and I can't find them in the grass much beyond a hundred with this outfit."

"Ha, I thought so. You'd better try mine. I can just make him out with it," Hank laughed as he handed over his own rifle equipped with an imported 4X hunting scope, twice as thick as the other but no longer and only slightly heavier.

"Boy, this must be about the best there is!" exclaimed Joe as he admired the brilliant image. "What is it?"

"Zielvier," said Hank, pleased with the praise, "but it's not the best. There's a Zechs 6-power and even a Zacht 8-power that's better. But, at that, the Zielvier is twice as good as our smaller American 4-powers which are about twice as good as your 3-power and yours is about that much better than the lower powers."

"What do you mean, 'twice as good'?"

"Resolving power," said Hank, "the ability to see details. You gotta see your game before you can aim at it. No find, no shoot. That need limits your 3-power to 150 yards at the most. Even my 4-power isn't good enough for the hard ones. When they're tough to see it takes a 6-power varmint scope, and a high-power target scope is twice as good."

"Maybe so," conceded Joe, "but that kind of shooting may not be exactly like sniping on Guadalcanal. I'll still take this 3-power for picking off Japs in the jungle. Wouldn't you?"

"From what I've read I would rather have open deer sights. That's short range snap shooting, not what I'd call sniping like in the last war."

"Sniping is just a name for shooting individual targets," explained Joe. "Even potting woodchucks inside 50 yards with a pistol or shotgun is sniping 'em. In the last war it may have meant that long range stuff you're talking about, but it means anything now like it always did from the beginning of sniping.

"That's right, I guess," Hank admitted. "Words do change meaning, but I still don't think your hunting scope would be any good in the jungle. A Marine came back from the Solomons and told me he couldn't see a green Jap in a green tree at 50 feet with his 6 power binoculars, and they're twice as good as my hunting scope and eight times better than yours. My big foreign scope might be right in open country for a couple hundred yards, but give me a 6-power for 300 or over, in any country. Even they are none too good in resolving power."

"You seem plenty sure about it. How do you think they stack up, from bad to best?"

"Well," began Hank, "it's hard to say exactly. They've all been tried on black and white in good light, but a camouflaged or half-hidden target in a neutral color and poor light makes any scope less effective than it shows on paper. The 1- and 1½-power are out. They have lots of field and light but no resolving power at all and the poorer 2½ is not much better. Then come the better 2's and 3's like yours which have to have ideal conditions at short range, and you can't pick your spots when the chips are down. Our small 4's are fair up to 200 yards under ideal conditions, but the bigger foreign 4's like mine are much better for the same purpose. But they're out, too, because we can't import 'em now. Too bad because they'd be our best all-around hunting scope for war. Next come our 6-power varmint scopes which have better resolving power with big front lenses. They have only a third of the field and less light, but you can see things better except at night in the dark of the moon.

(Continued on page 34)

MODERN PERFORMANCE BY AN OLD RELIABLE COLT

Boser's .401 Special

A DOPE BAG REVIEW

After four years of experimental firing with more than two hundred different game, target and heavy field loads, Gordon Boser's .40 caliber revolver development, the .401 Special, has had ample opportunity to prove itself. Latest in the affections of the non-professional Springville, New York, gunsmith and dealer who devotes his mechanical talents and shooting interest almost exclusively to handguns, it antedates extensive experiments with all popular calibers up to the .357 Magnum, .38-40, .44 Special and .45 Colt. Without slighting any phases he goes through the entire gamut of handgunning from remodeling and improving the revolver and the components to bagging game with his handloads using the outfits of his own creation.

The .44 Special remained longest in Boser's affections, but finally he sought further improvement by using .401 S. L. Winchester cases which, as Pop Eimer did with Krag cases, he machined off to a uniform length of 1 7/32 inches for .401 caliber or .38-40 bullets. The record of the experiment breaks naturally into several phases—the remodeling of the gun, the development of loads with available components, the exhaustive tests on chucks and other targets in direct comparison with other calibers, and the design of special bullets followed by the assembly of new loads and further field and target tests.

Boser liked the Single Action Colt and selected that with a 5½ inch barrel for his ideal handgun. He made his cylinder bore .404 inch for .403 bullets with a groove diameter of .402 inch, and as far back as 1939 made a number of changes to improve the action. These changes are shown in the accompanying sketches. His cylinder clearance is .0225 inch, and .010 at the rim. The completed gun weighs 40½ ounces.

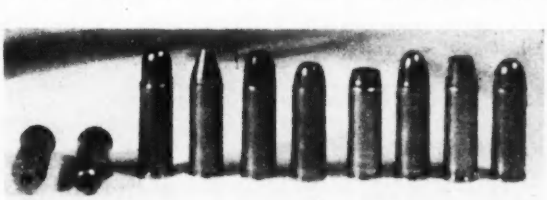
When Boser started his shooting experiments in this .401 caliber, he had to use .40-60 and .38-40 bullets, the B. & M. No. 403185 design remaining as one of his top favorites throughout. He had good results with Ideal No. 403168, a .40-60 Winchester 210-grain rifle bullet. He tried his loads on wood and steel, cattle, hogs and goats. His first woodchuck shooting was very successful with duplex loads, but he abandoned them when laboratory tests (reported in November, 1939, Dope Bag) revealed their dangerous pressures.

His best general-purpose load for target accuracy was 6.3 grains No. 5 and the B. & M. 192-grain solid bullet No. 403185. He fired some good groups with it including one which shows all shots in one ragged hole of ⅝ inch outside measurement. In making this group, Boser fired offhand at 25 feet. He scored 99 x 100 at 25 yards with it. He killed a crow in a tree 60 yards away with this load, and fourteen chucks up to 50 yards. He also had six misses and three no-kill hits up to 168 yards. In all, he killed a hundred chucks in 1939 with his various different handguns and loads.

Boser also used up to 17.5 grains No. 2400 for a regular load behind this bullet and had good accuracy up to 150 yards. It gave better penetration in pine than the .357 S. & W. Magnum with powerful loads, but the latter gave better penetration in mild steel. With the load of No. 2400 the bullet was used cast hard, or 1 part tin to 10 parts lead, and it weighed an even 190 grains. The diameter was .001 inch larger than the grooves of Boser's barrel. In steel this load bested heavier loads of the same powder in the .44 Special.

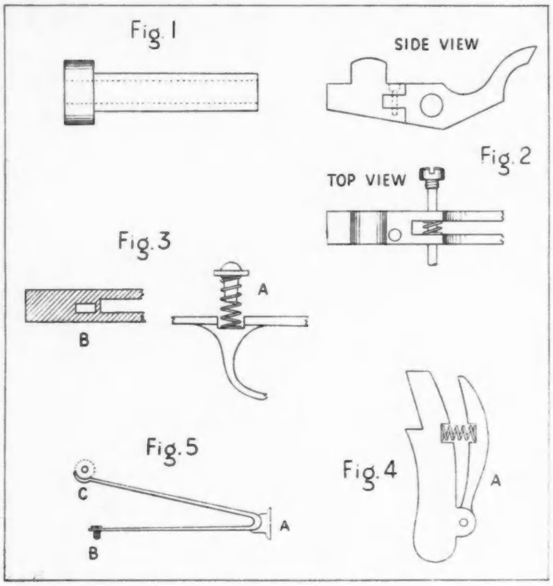
He also tried a (181.5-grain) soft .38-40 factory bullet, of 1 part antimony and 40 parts lead, with No. 2400. Made hollow point it weighed 169 grains and he used up to 18.5 grains powder without any bore leading. This one was .401 inch (.001 inch undersize) and it gave good accuracy. It blew apart a cottontail hit in the shoulder at twenty paces, although he noted it was less destructive than the duplex loads.

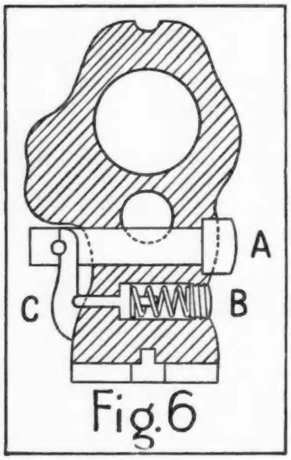
The B. & M. bullet left solid weighed 192 grains. Boser had good accuracy with 6 grains No. 75 gallery smokeless, but these loads deteriorated after only a few weeks storage and he quit it after getting erratic results from month-old loads. He found 17.0 grains of No. 4227 and 16.0 grains of Sharpshooter to be as bulky as 17.5 grains of No. 2400. He dropped them because they gave either more blast or less power. His best load was 18.0 grains No. 2400 with the 180-grain H. P. bullet which was even more destructive on animal tissue than his former duplex loads. The nose cavity was tapered from 3/16 inch to a point ⅜ inch deep. Two samples recovered after blasting a rabbit's head and a duck's head show only the bases of the bullets remaining plus two small pieces of lead recovered from oiled sawdust behind the targets. A three-year-old bull had his vertebra cut off, also with one of these. The recovered sample shows only the base, cupped, and two

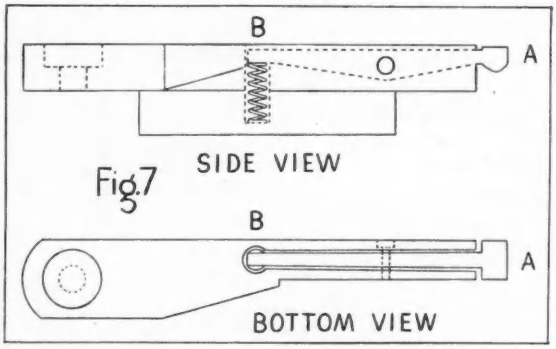


Most interesting of 223 Boser .401 loads (L. to R.): (1) 193-gr., HP, No. 401452; (2) 180-gr., Ideal, No. 403185; (3) 260-gr., Ideal, No. 403170; (4) 220-gr., lathe-cut to taper point; (5) 210-gr., WRA, .40-60 factory; (6) 180-gr., WRA, .38-40 factory; (7) 145-gr., lathe-cut wad-cutter; (8) Boser Long Range, No. 403215; (9) 206-gr., Solid, No. 401452; (10) 192-gr., Solid, No. 403185 small pieces of lead. Another sample from a hog is identical. In these the nose cavity was only ⅛ inch wide, but ⅜ inch deep like those above. This 180-grain H. P. bullet, with 18.0 grains No. 2400, hit a chuck in the paunch at 127 paces and cleaned him out.

On dry hemlock wood it gave good expansion and lost 23 grains weight in penetrating six and a half blocks, 2 inches thick and spaced 2 inches. The soft .38-40 factory bullet of the same weight with the same powder charge penetrated only four and a half blocks, but it expanded to .650 inch. The latter measured .400 inch and seated .317 inch deep. The harder B. & M. bullet (1-10) was larger and seated .295 inch deep. All were loaded in W.R.A. cases and fired with R.A. No. 2½ primers. The solid 192-grain B. & M. bullet with the same load also penetrated six and a half blocks and it expanded to .458 inch. These are average figures for ten shots each. This test was repeated with the .44 Special for comparison using 3 grains more powder behind a 208-grain B. & M. bullet (No. 429205) of the same 1-10 temper. It penetrated seven and a half blocks without expansion and a loss of only 2 grains. Made hollow-point, to weigh 197 grains, the same bullet and load penetrated five and a half blocks with little expansion and lost only 10 grains weight.







Improved parts for Single-Action Colt; Fig. 1—tool steel base-pin bushing for heavy loads, measures .451 inch at the forward shoulder engagement with frame, or .077 inch heavier than standard. Fig. 2—redesigned tool steel bolt part using hinged joint and coil spring for strength and positive locking of cylinder in alignment; is pinned to bolt proper. Figs. 3–A & 3–B show bolt spring arrangement. A hardened die is sunk in trigger guard for bolt spring and plunger, as shown, which engages slot (B) in bolt bottom, locks bolt in cylinder notch. Fig. 4—hand and lever (A) with operating coil spring. Fig. 5—Boser's non-breakable V-spring. Loop engages lug (A) on backstrap of grip, bottom leaf engages peg (B), and main leaf contacts Colt hammer roller (C). Fig. 6—improved system for locking the base-pin with the spring-and-plunger (B) actuated lever (C) pinned to the cross bolt (A). Fig. 7—trigger spring arrangement. Lever (A) engages trigger lug at outer end, inner end (B) rests on coil spring. Screwed down in place of original spring, this entire plate is supported snugly by trigger guard. Fig. 8—reinforcement block rests on unsupported side of bolt, also held by trigger guard. Rounded end (A) fits contour of frame; concave end against bolt screw to stop side play of bolt

Other loads tried were 10.5 grains No. 80 and 8.1 grains Unique behind the factory .38-40 bullet. No. 80 gave a sharper report, lower pressure and better accuracy, but it penetrated only seven pine boards against ten for the Unique load which had a duller report and was not so cleanly burned as 10.5 grains No. 80. A charge of 12.0 grains No. 80 loaded to the base of the B. & M. bullet, burned clean and penetrated eight and a half pine boards ⅞ inch thick and spaced 1 inch. A slightly cleaner load is 13.5 grains of No. 4759, also loaded to the base of the bullet, which penetrated six and a half pine boards and had a mild report, low pressure, light recoil and good accuracy. Even 6 grains of No. 4759 burns well without squibbing and shoots 3 inch groups at 25 yards.

Boser's next best handgun caliber is the .44 Special. In order to compare the unknown with the known, he rebuilt another Single Action Colt exactly like his .401 Special Colt, but in .44 Special caliber with a groove diameter of .427 inch. He had this ready early in 1940. A friend, Fred Bonnet, also had a pet .44 Special with a 5½ inch barrel. The load developed for them was as follows: B. & M. No. 429205, sized .429 inch, seated .296 inch deep, ahead of 7.5 grains No. 5 in R. A. cases and using R. A. No. 2½ primers. This was an accurate load. It gave ten hits in twenty shots at 150 paces on a 10-gallon milk can. The .401 Special with 6.3 grains No. 5 seemed to have a flatter trajectory. It gave fifteen hits on the same can under the same conditions. Boser also killed two crows with the .401 Special.

In his new .44 Special, Boser found that 8.0 grains No. 5 or 6.7 grains of No. 6 was a better load, and this one seemed to prefer W.R.A. components. It also liked a 240-grain Bond bullet A-429750 (1-16) sized .429 inch and seated .360 inch deep. The load was 6.3 grains No.

5. With this load he fired all six shots into a small one-hole group at 25 feet offhand. Another accurate load was 8.5 grains Unique with the Keith-Ideal 230-grain H. P. seated .335 inch deep. He also used this bullet and 18.5 grains No. 2400 for chuck shooting. With target loads the .44 Special was bested at 25, 50 and 100 yards by the .401 Special. With chuck loads the .44 Special got the first meat of 1940, a head shot at 20 paces. In all, the .44 Special got nine chucks with thirty-one shots up to 89 and 97 paces. With the .401 Special, Boser got twenty-three chucks with twenty-nine shots and the longest kills were at 169, 127 and 177 paces.

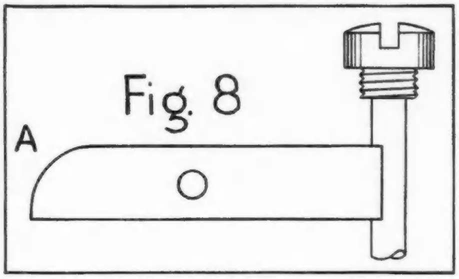


Fig. 8

He also tried the .357 Magnum, with 6 inch barrel, on chucks using handloads and factory loads. The score was seven chucks with eighteen shots, all within 50 yards. Using a heavy load of No. 2400 in the .357 Magnum, he got higher pressures and also greater penetration in steel than with the .401 Special. Boser's final evaluation of the three calibers was that the .357 Magnum and .44 Special might possibly be better long-range handguns, although he had more hits with the .401 Special up to 50 yards and greater destructive effect with its bullets at any range. A billy goat hit in the neck at 15 feet with the .401 Special was knocked off its feet. The 4 inch hole was too low to damage the spine, but it took the throat out completely.

As to case mortality, the first report showed the .401 Special cases were still O. K. after sixty-three reloadings and the .44 Special cases after twenty-two times. One lot of the latter had enlarged primer pockets after sixteen reloadings. A later report on twenty of the .401 Special cases showed they had been further used up to eighty-one reloadings without any sizing. The .44 Special had a cylinder bore of .434 inch for .429 inch bullets. The .357 Magnum held 11 grains of No. 4759 to the base of the bullet, or 2.5 grains less than the .401 Special. With this load and Ideal bullet No. 357446 (1-10), sized .001 inch larger than the grooves of the .357 S. & W. Magnum, the penetration was 5 inches in hard pine, and the pressures were higher than the full capacity load of No. 4759 in the .401 Special. With other bullets the .357 Magnum holds 12 grains and the .401 Special, 14.5 grains.

In 1940 Boser designed his new Ideal bullet No. 401452 for the .401 Special and .38-40. He also started playing with No. 4759 powder when it first appeared. A load of 14.0 grains No. 4759 finally replaced his old pet load of 6.3 grains No. 5 powder for accuracy up to 100 yards. His case is $1\frac{7}{32}$ inches long and held 13.5 grains No. 4759 to the base of the B. & M. bullet against 14.5 grains in the .44. In the .401 Special 14.5 grains is the full capacity load; in the .44 Special it is 16.0 grains with another bullet. He had found No. 2400 to be better than Unique or No. 80 for power and accuracy in the .401 Special, while No. 4759 has proven better than No. 5 or No. 6, both of which were good, however. His new bullet, when made hollow point, showed twenty-five per cent greater destruction on woodchucks than his old favorite B. & M. 180-grain H. P. bullet.

Using various loads he compared the penetration on thick mail-order catalogues. With the .40-60 Winchester 210-grain factory bullet and 11.0 grains No. 80 it was 950 pages. With 7.5 grains of Unique it was 1270 pages. With 14.0 grains of No. 4759 it was 2160 pages. Using the B. & M. 192-grain bullet, No. 403185, and 17.5 grains No. 2400 the penetration was 1895 pages. With his new Ideal-Boser 216-grain bullet, No. 401452, and 17.0 grains No. 2400, it was 2025 pages. The B. & M. bullet with a heavier load of No. 2400 has given Boser his greatest penetration in steel to date. Considering the mild report and recoil and apparent moderate pressures with the load of No. 4759, its relative penetration is remarkable. Both the No. 80 and Unique loads with the same bullet gave greater fuss and less power. The load of No. 4759 got his bullets to the 100 yard butts appreciably faster than his pet No. 5 load. A speedier load subsequently developed was 9.0 grains Unique and his No. 401452 bullet.

Two new powder loads for moderate power which Boser found useful were 3.7 grains and 4.2 grains Bullseye and 6.0 grains of Herco Shotgun. His light loads were made by using the nose ends of other bullets converted (by altering the mold) to weigh about 130 grains. With a seating depth of only .200 inch these worked well with 6 grains of Dupont Bulk Smokeless and those with a seating depth of .250 inch also worked well with the same load and with 3.0 grains Bullseye. Another was the B. & M. 403185 reversed and fired base first with 2.0 grains Bullseye at 50 feet.

Other shooters have reported on using Boser's 193-grain H. P. bullet No. 401452 in other .401 Colt revolvers. Ray C. Thompson, who probably uses a Pop Eimer .401 Magnum case, said that 18.0 grains of No. 2400 gave the Ideal-Boser bullet fully twenty-five per cent greater destructive effect on live targets than the .357 Magnum or anything else he had seen. Pop Eimer sent us a 25 yard target fired by Thompson which had all six shots in 1⅞ inches. Boser has made more than a dozen paunch hits on full-grown woodchucks with positive killing effect and has never lost an animal hit any place with one of these bullets from his .401 Special. One bullet which penetrated 2⅛ inches of bone in a 250 pound hog weighed 89 grains when recovered. In all, over the four-year period of its history, Boser has killed many varieties and numbers of game, from cottontails to grouse, with his .401 Special. Its record includes 50 snakes, 87 squirrels and 233 woodchucks.

LEGION OF MERIT: Sgt. Howard W. McGowan, Ordnance Department, U. S. Army, (now 2nd Lieut., Camp Sutton, N. C.) has been awarded the Legion of Merit for distinguished service and cited for "exceptionally meritorious manner of performance of duties." By his ingenuity was invented and designed a tool to extract broken cleaning rods from rifle barrels, resulting in great saving of time and money to the Government.

BRIDGEPORT, CONN., APR. 1943

Possibles and Impossibles

by **FRANK J. KAHRS**

While wandering around on the west coast of Florida recently, our peregrinations took us to the scene of many a hard-fought shooting contest on the range where the Annual Mid-western Small-Bore Championships were held until this winter. Hearing the sounds of musketry, we soon discovered that the Army had taken over this lovely range and was getting sole benefit from the equipment and facilities available. In fact, they had added somewhat to the equipment—so that the local rifle club figures that when the Army moves out and things again return to normal, the facilities will be much better than formerly.

* * *

Our next stop was a small town where they have a very fine rifle and pistol range, and here we ran into an old friend of many years standing. We had a long and interesting discussion on the subject of rifle shooting and its value in training our people in the art of shooting.

Whereupon our friend reminded us of an article he had written for this very magazine some twenty years ago, and he actually dug up a copy of the article for us to read. There was so much meat and real, practical information in this that we decided to lift some of it for this column.

After dealing with the subject of psychology—which, the article reported, Webster defined as "systematic knowledge and investigation of the powers and functions of the mind"—it goes on to apply this to the shooter. Here are some of the thoughts:

"First off, keep in mind that the man who is putting in his best effort to make the top in a shooting competition is under exactly the same fine nervous or subconscious strain as is the surgeon in performing a major operation, where a slip of the knife means failure; and it is the same old fear of failure suggested by the subconscious mind that bungles the job.

"There are certain things which we can do to keep balance and poise under nervous tension and which we must do either consciously or unconsciously if we are to be successful, and that is nothing more or less than muscular relaxation. The muscular system requires frequent and complete rest from the drive of nervous tension. And just remember this . . . a moment of relaxation, perfect and complete, is helpful and restful and cannot be replaced by any artificial stimulant.

"Stage fright, or, in the shooter's vernacular, 'buck fever', is nothing more or less than a 'nightmare' in the daytime. It is the ascendancy of the subconscious mind over that of the reasoning or conscious mind, and at once the whole system of mind and muscle are out of tune.

"When you are peacefully asleep, your entire muscular system is limp and at rest. It is recuperating to the point where it will have strength for the next demand made upon it. When you are relaxed in sleep you may be snoring, but dreaming of pink mice, never.

"Some time when you find yourself under an extreme nervous tension, try this: lie down on your back, or in any other position, just so you are all limp—and do not move even an eyelash for, say, ten minutes. You will certainly find that you cannot remain excited, scared, angry, or have any other tense emotion for half the above period.

"Anyone who becomes physically fatigued through nervous excitement—and we all do—should, under such conditions, practice all the muscular relaxation possible. It is nothing but worry; and worry has ruined more special effort men than any other cause. Any man who drives his muscular system by worry is in for an eventual breakdown."

* * *

For putting forth that extra effort that keeps bullets in the center of bullseyes, those words of wisdom are well worthwhile for every rifle and pistol shooter.

Remgto

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To help you answer these and other g am-munition questions, we've prepared the boo rms and Cartridge Adaptations"—covering all cen-ter-fire rifle and pistol cartridges.

This booklet is easy to use. Just look u ake and model of the gun—and right there the car-tridge or cartridges are listed. It is availa out charge—and we hope it will be a useful to your shooting library. Write *Advertising S em-ington Arms Co., Inc., Bridgeport, Conn.*

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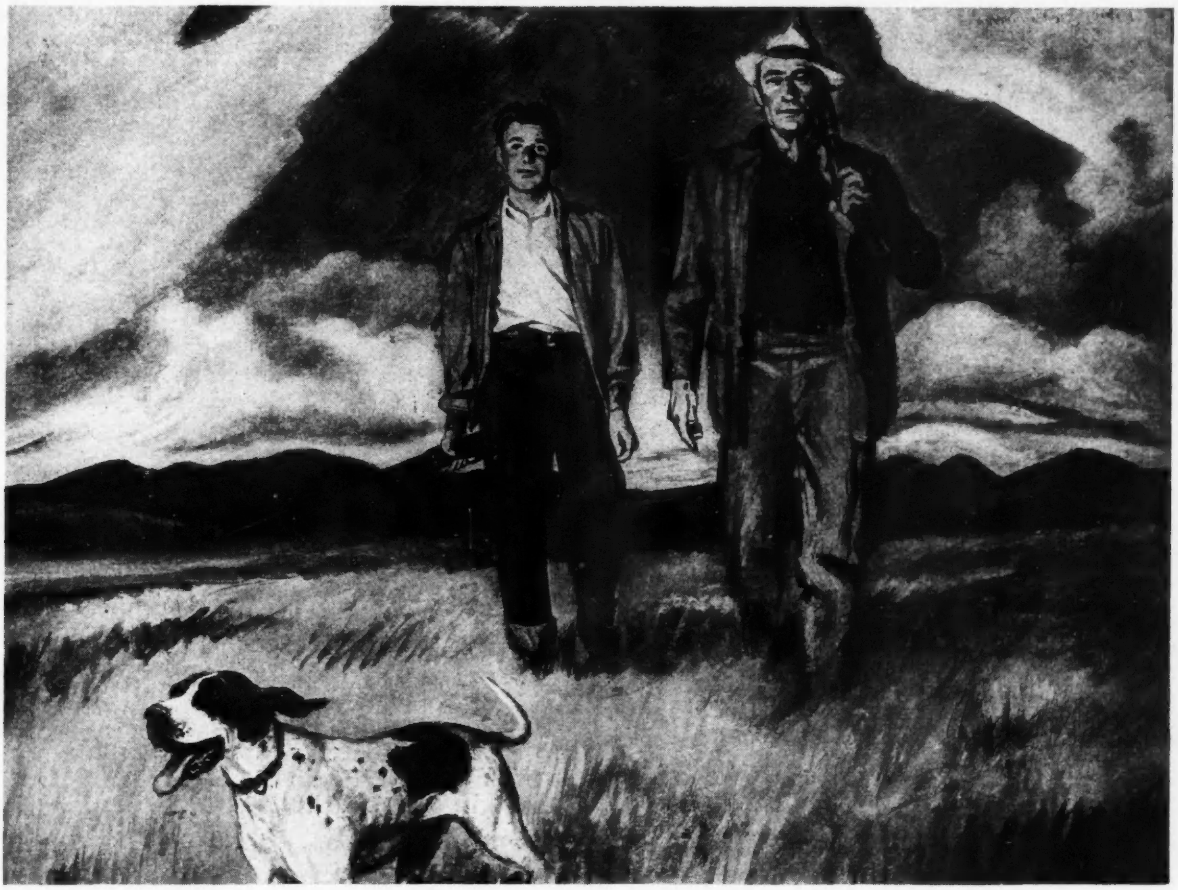
NOW TRY IT MOVING YOUR ELBOW O
I SHOWED YOU..... THEN I'LL SHOW YOU
TRICK I THOUGHT UP.... LET'S SEE NOW.

ington News

A PAPER FOR PEOPLE WHO SHOOT



The right to walk in peace...

WE ARE fighting not only for the Four Great Freedoms, but for lots of smaller, more tangible things, too.

For instance, we are fighting for the right to walk through peaceful, sunny fields with a dog and a gun, free of the shadow of war.

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Here at Remington we are doing everything in our power to speed peace through victory. We are grateful to be able to serve our country now that the country has had war forced upon it.

You, too, can serve by observing these conservation measures: wipe guns with an oily rag occasionally . . . store guns and ammunition in a cool, dry place . . . turn in empty shot shells and cartridge cases for brass salvage . . . and save fats, hides and down for war use.

And remember, after the war is won, Remington will be back to supply you again with its famous sporting arms and ammunition...in even finer quality as the result of wartime research and experience. Remington Arms Company, Inc., Bridgeport, Conn.

* * *

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Remington

DUPONT

"YOU CAN'T HIT 'EM IF—

(Continued from page 28)

The Marines tried a special-made, 8-power, varmint scope like that with still less field and light, but its resolving power was so good it passed all their field tests even an hour before and after daylight. The trouble with these varmint scopes is that they are in target mounts. They would be just the ticket for the slow, accurate sight adjusting and long range shooting of our 1917 snipers, but those mounts are too weak for this fast-moving blitz war. There just isn't a scope available that fits."

"I'm not so pessimistic," replied Joe. "The Japs and the Germans may be ahead of us with military scope sights, but our Russian friends have 'em and we should too. I believe something can be done about it. Just suppose it was your job. What would you do?"

"Well, in the first place, I'd forget about these fine target adjustments and build stronger military mounts for those good medium-power varmint scopes with just enough adjusting for sighting in at 200, and then teach our snipers to hold over the target like hunters have to do at long range. In the second place, I'd design a special medium-size 6-power with internal zeroing for a strong compact mount without any adjustments."

"Now you're putting the searchlight on the Japnasties!" exclaimed Joe approvingly. "And, while you were getting ready, I'd round up all the scopes in the country, good, bad and indifferent, and adapt all the mounts I can get for Springfields and Enfields. I believe any scope is better'n none, and time's a'wastin'."

"Wait a minute!" interposed Hank. "Are you going to single load those bolt-actions? For clip loading you'll need a quickly detachable mount or a hinged one."

"Say!" shouted Joe, "you've got something there. Sure I'll single load the Springfield if I have to, but the Garand loading had me stumped. Now I'll use the Garand too, clip and all, with that hinged mount you mentioned.

"I have another way out for the Garand," said the resourceful Hank. "For my special compact 6-power I'll have a prism eyepiece for ocular alignment and let the scope tube rest along the left side of the action directly above the side mount and out of the way of the 8-shot clip. How's that?"

"That's a direct hit, I'd say," approved Joe, "unless it's a near miss. Won't that prism gum up the optics?"

"Oh, no. It will improve the optical performance by cutting out two surfaces which would reflect light as in the usual compound eye lens. This offset eyepiece is easy. It has been used for years by small-bore men, and recently bull-pup varmint shooters have adopted the prism ocular. Even the type of scope arrangement I have in mind for the Garand is already on paper in the U. S. Patent Office, and our big optical companies are working out the best scope system."

"Say! You've really got all the dope," said Joe, impressed. "How come you know all these things?"

"Oh, that's nothing," deprecated Hank. "I'm an NRA member and always read every word in every copy of THE AMERICAN RIFLEMAN."

FIREPOWER

(Continued from page 10)

tanks, strong points, etc., are easy targets for this "siege" gun. Mounted on tanks, or tank destroyers, these various pieces of artillery deliver an unusually large volume of firepower. Each caliber is provided with high explosive and armor piercing shells.

We have three classes of tanks—light, medium and heavy, weighing approximately 18, 30 and 60 tons respectively. These are track laying vehicles, protected by heavy armor plate and armed with cannon ranging from 37-mm. to 3 inch caliber together with machine guns. Of the medium tanks, the General Sherman, M4, is of later design than the General Grant, M3. It is of welded instead of riveted construction and has many innovations. The General Lee (also M3), was characterized by an extra cupola. The larger tank is a veritable battleship on wheels, but our medium tank is more than a match for anything the enemy has. One British officer, who has fought in practically every battle in North Africa, states that the Axis so fear American tanks (medium and light) that they will not fight unless they (the Germans) outnumber them three to one. Since then, the German Mark VI, a 56 tonner with an 88-mm. gun, has made its appearance, but experts state that it is outmatched by our medium General Sherman tank, which has a more powerful 3 inch gun, and is so much faster that it easily out-maneuvers the Mark VI. Other experts state that we do not need a tank larger than our medium tank, but in case we do need them, the Ordnance Department has anticipated the need.

Self-propelled artillery is a name Ordnance has given to cannon mounted on wheels and engine driven. Some of these have become known as tank destroyers or tank busters. All kinds and sizes of artillery have been tried out on every type of motor driven vehicle. Some have been standardized, produced in quantity, and are already making a name for themselves abroad. One of the smaller self-propelled artillery pieces consists of two .50 caliber machine guns and a full automatic 37-mm. gun on a single mounting so that they can be fired simultaneously or individually. This triple threat is then mounted on a swift moving half track car for use as an antiaircraft weapon or antipersonnel as the case may be. It also makes an effective antitank gun.

The menace of the Panzer Division, the tank force, has been overcome with the tank destroyer. In fact, so effective is this weapon that many hold the opinion that it will supplant the tank. While the destroyer has proven that firepower can prevail over armor, this does not necessarily forecast the elimination of the tank, for the tank will continue to be used to give protection to troops against ordinary weapons. Suffice it to say that the tank has lost the dominant position with which it entered this war, and that the tank destroyer holds equal honors at least. Its use in Russia and Africa has already changed the tactics of modern warfare, and there is little doubt but that from now on tank destroyer forces will first be sent against enemy tanks and then these will be followed up with a counterattack using our own tanks supported by other ground forces. However you look at it our Ordnance has firepower. That's what the Ordnance Department is for: To give our fighting men what they want and need. And make no mistake about it: Our firepower, properly loaded, will win this war!

Tooling up the Home Workshop

The third and concluding part of a series on essential equipment for the gunsmithing hobbyist. Keeping guns in repair for these days is the object—guns needed for training, predator control, home guard duties. Suggestions for practical jobs will follow

By CLYDE BAKER

RIGGING THE "HOT BENCH"

Having set up a substantial small bench, with brick and metal covered top for heat operations as previously described, the next step is its equipment—and this may be acquired progressively as your need develops.

Start with a half dozen loose firebricks and a good gasoline blowtorch. With only this simple combination you can do a lot of forging of small tools and parts. Set the bricks up in miniature fireplace fashion; one brick standing on end for each side, a brick over the top and three across the back making a small three-sided enclosure. This will afford a fairly effective muffle for quicker, hotter heating of work. For cyanide hardening of screws, pins, sights and other small parts, the same setup can be used with the exception of a brick placed at the bottom of the enclosure which will have a hole cupped out to hold small parts with cyanide.

Arrange a row of tall, narrow, quart-size cans, properly marked and containing in the order named, fish oil (hardening oil), linseed oil, plain water, and water with a half-inch of linseed oil on top. These will take good care of most or all of your hardening and tempering requirements. (Special instructions and formulas will be given later in this series for color hardening.)

Next bit of equipment should be a simple gas jet or Bunsen burner, or a one- or two-burner gas hotplate—or both. Use for heating soldering iron, heating glue pot, melting lead for laps, and for various tempering and annealing operations not requiring heats above cherry red. A small sheet iron oven to set on the gas plate (costing about a dollar at the mail order house) will prove useful for baking crinkle lacquer on aluminum accessories and parts which you'll be making from time to time, and for other purposes you will probably develop.

An efficient muffle furnace may be built up from a few firebricks and equipped with gas and blower rigged from an old vacuum cleaner. I have seen such an outfit that would bring 2-inch shafting to white heat within ten minutes. If you have an air compressor, this will of course eliminate the need for the blower suggested. A regular "boughten" muffle made of cast iron will cost you around ten dollars. It should have its walls thickly lined with asbestos paste before using. By all means, rig it with blower or compressed air. (See figure 3.)

Soldering Coppers, in sizes from ¼ to 2 pounds, have a place at the "hot bench," along with a supply of acid core soft solder, which I have generally found best for all-around gunsmithing use. And don't forget one or more of the several excellent "hard solders" now available, including certain airplane solders, and both wire and ribbon silver solders, with suitable fluxes as recommended by your tool and supply dealer.

A small forge, with blower, can be had at the mail order houses for under fifteen dollars and will prove a splendid investment if you contemplate much tool making. Two or three bushels of "blacksmith coal" or, preferably, "charcoal" will provide fuel for a long time.

A cheap anvil will do. If the cheaper ones are too dear, get along for the present with a 12-inch length of railroad rail—you won't suffer much. Don't forget a 2-pound forging hammer, and 12-ounce cross pein hammer for the lighter work and a pair or so of small blacksmith tongs or some cheap pliers for holding work. A visit to the nearest blacksmith shop will result in some useful ideas about tongs.

Welding is perhaps the most useful of all operations carried out at the hot bench, and acetylene welding is the most useful in the gunshop. As soon as you can afford it, provide yourself with a good acetylene welding torch, with assorted size tips, also with a tank each of oxygen and acetylene. It is recommended that you buy your torch from the local firm supplying these gases, as these firms usually send a service man to instruct the purchaser in the use of the torch, gauges, etc. The mail order torches are thoroughly satisfactory also. Study the instructions which come with your torch and, if possible, study the books available at your local library on the subject of welding. I went rather thoroughly into the subject of welding, soldering and brazing in "Modern Gunsmithing," and a study of that chapter should prove helpful.

But whatever you think you know about welding from a *study* of the subject, don't tackle a delicate gun job until you have *practiced* with your equipment and experimented until you know exactly what you are doing.

Rig up a neat rack close to the hot bench to hold a supply of Bessemer, cold rolled, and nickel steel welding rods, along with your brazing rods, silver solder, etc.

Clamps in assorted sizes should be provided for setting up welding and brazing jobs. Be sure they are of malleable iron—*cast iron will break under heat and pressure.*

Measurements are sometimes needed on welding operations—provide a 12-inch scale from the "dime" store, and a pair of inside and outside calipers from the same source.

Protect your eyes with standard welding goggles, and your hands with substantial leather gloves for all welding operations. You may *think* you can see a job better with the naked eye, and that this once will do no harm . . . but eyes once "burned" from looking into the welding flame will never again be precision eyes, as many foolish workmen can testify.

If possible, provide a planed slab of cast iron for setups on the hot bench, and a few slabs or scraps of machinery steel will also prove useful, as well as a few firebricks. *Never* turn a welding torch loose on concrete . . . unless you want very unpleasant fireworks.

THE BLUING ROOM

Gun bluing, hardening, welding, forging and heat treatment are so closely related that all may well be combined, if desired, in a separate part of the shop; although where space permits I should prefer to conduct bluing operations alone and in a separate room. The reason for this preference is that all modern bluing processes necessarily result in moist vapors which are essentially conducive to rust on other equipment.

Before deciding on bluing room equipment, consideration of the process or processes to be employed is essential. Either the amateur or professional gunsmith needs more than one process, as follows:

1. *Simple oil bluing* for screws, pins and the like. This consists merely of heating the polished parts slowly and evenly in a gas flame until they begin to glow slightly when in shadow—the faint suggestion of glow which precedes a dark red heat—then quenching in linseed oil. This operation can well be conducted at the hot bench, using either blowtorch, Bunsen burner or gas hotplate.

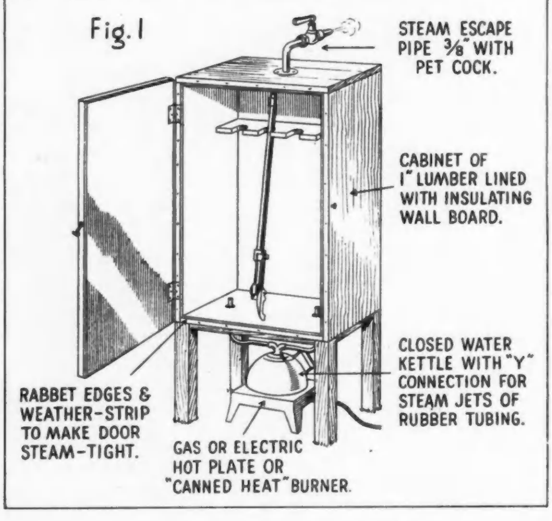
Fig. 1
STEAM ESCAPE PIPE 3/8" WITH PET COCK.
CABINET OF 1" LUMBER LINED WITH INSULATING WALL BOARD.
CLOSED WATER KETTLE WITH "Y" CONNECTION FOR STEAM JETS OF RUBBER TUBING.
RABBET EDGES & WEATHER-STRIP TO MAKE DOOR STEAM-TIGHT.
GAS OR ELECTRIC HOT PLATE OR "CANNED HEAT" BURNER.

2. *Nitre Bluing* may be used for sights and certain other relatively small parts where a rich, deep blue is indicated, and where there is no heat treatment to be affected adversely by such a process. This would include certain revolvers and pistols, as well as .22 caliber rifle receivers, etc., but not barrels or receivers of high power arms. It is adaptable to slides and receivers of automatic pistols but not to barrels, hammers or action parts, nor to heat-treated revolver cylinders. The only equipment needed is a cast iron or heavy welded sheet iron box or pot sufficiently large to take the parts. In this, the bluing salts are melted without water, and for this purpose nothing more than a one- or two-burner gas hotplate is needed. If gas is not available a common two-burner oil stove will do nicely.

3. *Charcoal Bluing* for exactly the same type of work as mentioned above for nitre bluing—preferred by many and certainly very beautiful when properly managed. It is especially elegant on engraved work with gold inlays but, like nitre bluing, is *not* adapted to any work having soft-soldered joints as soft solder will be melted out by the heat employed. Only equipment needed is a fifty-pound bag of hardwood granulated charcoal about as coarse as common table salt or sugar (obtainable at low cost from firms handling heavy chemicals), two or three black, sheet iron bread pans large enough to hold sufficient charcoal for completely burying the work, a one- or two-burner gas plate or oil stove over which the pan of charcoal may be heated until it is glowing red, and a cigar box about half full of dry Spanish whiting or pulverized lime with a small swab or mop made by tying a cotton rag onto the end of a stick.

4. *Cold Solution Bluing* (slow rusting process) not recommended and not really needed today unless you expect to go in for old stuff, particularly damascus barrels —which the smart gunsmith will avoid! If you are interested in this work, however, then study Angier's "The Bluing and Browning of Firearms" which contains several good processes and for this purpose rig yourself a steam cabinet or "sweat box" like Figure 1. The "trickiness" and pitfalls of this and similar methods will be discussed in a later article on bluing technic.

5. *Quick, Hot Bluing Methods*, such as my own No. 1 formula in "Modern Gunsmithing," Hoffman's 20-Minute Solution, Jim Howe's Quick Hot Formulas in his "The Modern Gunsmith," and various similar commercial compounds. All these have merit but are less certain and far more troublesome than the more modern and infinitely better methods described below, and which require essentially the same setup of equipment.

6. *Stoeger's Lightning Gun Bluer*, essentially a ten to fifteen minute simple boiling process in a strong alkaline solution, which rendered obsolete all "20-minute" or "quick hot" (so called) processes. Uniformly excellent results are obtained by this method which ordinarily requires little or no pre-cleaning . . . merely de-greasing with hot gasoline or, preferably, with carbon tetrachloride (sold commercially as a spot remover under the trade name of "Carbona"). This compound is so strongly alkaline that it will blue even slightly greasy or finger-marked work—the simple pre-cleaning suggested is aimed at preventing degeneration of the compound through saponification with existing grease on work.

The color produced on highly polished and buffed work is identical (to my eyes at least) with that wonderfully rich deep blue on Colt revolvers and automatic pistols—and it wears about the same. On rough polished, stippled, sandblasted or engraved work, the color is generally deeper, a very deep blue-black, with no suggestion of "brown" such as is common to all "20-minute" or "hot rusting processes."

7. *"Hough-To-Black,"* a modern industrial product of E. F. Houghton & Company, Chicago, Illinois, is similar in some respects to Stoeger's "Lightning" but even better for the gunsmith, both from the standpoint of economy and results. It, too, is a strongly alkaline compound, requiring only ten to fifteen minutes boiling of the work, followed by, first, a cold water, then a hot water rinse, then oiling. Its color is noticeably deeper than Stoeger's

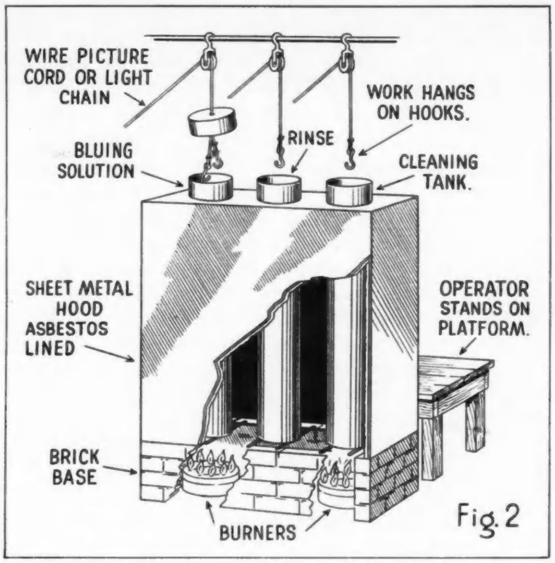
WIRE PICTURE CORD OR LIGHT CHAIN
WORK HANGS ON HOOKS.
RINSE
BLUING SOLUTION
CLEANING TANK.
SHEET METAL HOOD ASBESTOS LINED
OPERATOR STANDS ON PLATFORM.
BRICK BASE
BURNERS

Fig. 2

. . . on highly buffed "mirror finish" work, a rich blue-black, identical with the old and greatly admired Smith & Wesson Revolver finish—and a rich deep black on dull polished, sandblasted or stippled work. Best of all, it is the most durable finish I've ever seen—withstands even vigorous buffing on a fine wire wheel at 3450 R. P. M. without noticeable wear—*not possible with any other bluing method in my experience.*

Hough-To-Black is today in use by more than one leading firearm and gunsight manufacturer, besides many other industrial firms. It possesses the unusual advantage of performing equally well on steels of various formulas and hardness—even on case-hardened work, where many other methods fail.

A Word of Warning! These highly alkaline compounds—both Stoeger's and Houghton's—are very destructive to soft-soldered points, so-o-o, don't use them on double shotguns, soft-soldered ramps and the like. Any form of silver solder, or brazing, is safe with these methods . . . and it might interest the reader to learn that silver-soldering and brazing can be *safely* done on any barrel, without risk of "scaling" the bore, provided a plug of iron or steel is turned up to a close *push fit* in bore, and left there while the work is brought up to the necessary cherry-red heat. This is nice news for the chap who wants to attach his ramps and ribs without bands or screws, yet without danger to the bore of a fine barrel.

Now, back to bluing room equipment. Like everyone else, I "fought the buzzsaw" for years with open, horizontal bluing tanks with four to six gas burners under them, and cussed when I noted the water boiling in four to six spots, over each burner, with cold spots in between, to ruin the work. Then one day, while sweeping out the basement, I happened to glance at the water heater and got smart. There was a fifty-gallon vertical tank, with a single 6-inch ring burner under the bottom end, and it would bring that water almost to a boiling point in half an hour or less. So I asked myself why in Tophet I should suffer with a horizontal tank, with all that surface exposed to the cooling atmosphere—and since then have had no trouble in heating a bluing solution.

Whether you use Stoeger's Lightning, or Hough-To-Black, or one of the "20-minute" rusting solutions—there's no excuse for a horizontal tank. Make your tanks of heavy gauge black iron with welded seams, or of 6-inch cast iron pipe with welded-in bottom, and rig them as shown in Figure 2.

Your local gas company or the firm that supplies you with "bottled gas" will also advise and supply you with simple but highly efficient ring-type industrial burners. Mount these close to the floor, above a layer of firebricks for insulation. Mount your tank or tanks with bottom about 4 inches above burners, and with tanks enclosed in heavy sheet metal hoods, lined with sheet asbestos furnace covering to conserve the heat. Sheet metal caps for the tanks may be perforated in center to slide freely on the suspension wires or chains on which the work is hung for lowering into the solution. As many as four barrels, with receiver attached, can thus be blued simultaneously . . . and you will have no difficulty getting the required high temperature since the solution, heated at bottom, rises and circulates, maintaining an even temperature throughout.

Small parts may be grouped on small hooks attached to the suspension wire or chain, while very small parts may be carried in a closed wire basket or strainer, similarly attached. These should be shaken frequently during the process to avoid constant contact which might leave light spots.

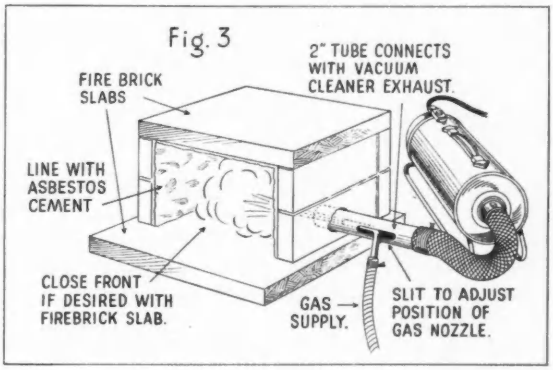
FIRE BRICK SLABS
2" TUBE CONNECTS WITH VACUUM CLEANER EXHAUST.
LINE WITH ASBESTOS CEMENT
CLOSE FRONT IF DESIRED WITH FIREBRICK SLAB.
GAS SUPPLY.
SLIT TO ADJUST POSITION OF GAS NOZZLE.

Fig. 3

Buffing or scratching is necessary only with the processes discussed in paragraph five, though it is occasionally desirable following the Stoeger Lightning and Houghton processes. The only buffing equipment you need, or should have in the bluing room, is an inexpensive slow-speed (1100 R. P. M.) motor with double end spindle, or a simple buffing-head belted to about this speed, with a 6-inch iron wire buffing wheel on each end—medium on one end and fine wire on the other end.

Add a package of very fine steel wool, a wide-mouthed quart jar or can of boiled linseed oil, a swab for coating newly blued work while still warm (but not hot) and a few pairs of clean, freshly laundered cotton gloves for handling work without leaving greasy finger marks—and your bluing room setup is complete.

Good ventilation is, of course, essential to carry off unpleasant fumes and excess moisture from boiling. A 10-inch fan near the floor and another in an opening near the ceiling will take care of this nicely.

The Old Coach

MORE EXPERIMENTAL FIRING NEEDED

There are very few shooters who know their rifle and ammunition so well that they can make a sure hit on a small target with the first shot. Is not this the real test of marksmanship—to hit our game before it has disappeared, or our enemy before he shoots back, and at a long distance if necessary?

Today the small bore rifleman scarcely ever really knows his rifle. All he knows is its average elevation for 50 feet and for 50, 100, and perhaps 200 yards. In every match he is allowed sighting shots limited only by a five minute time allowance, and with their aid he can always make the adjustment in sighting necessary to put him in the ten-ring. This is so easy and so productive of high scores that he scarcely ever keeps a scorebook.

It would be a very good thing, I think, if it were possible to eliminate all sighting shots from our matches. We would then be compelled to learn our rifles so we could hit well into the center on the first record shot under all shooting conditions. One reason why this is not done is the desire of all shooters to make the highest possible score. A 10-X possible sounds much better and gives us more of a thrill than a score of 98, which would be a fine score if no sighters were taken.

Another, and perhaps more important reason, is the universal tendency of .22 caliber rim-fire rifles to fire inconsistently from a clean, cold bore. From three to six warming shots may be required, depending on the particular rifle, to produce consistent groups. This fact, plus the extreme sensitiveness of these rifles to slight differences in hold, sling tension, etc., constitutes one argument against the use of the .22 rim-fire as a small game hunting cartridge.

Thus our successful small bore shooters are often not really finished riflemen—they are merely shooters who can "hold 'em and squeeze 'em." It is not necessary for them to progress further than the A.B.C. of shooting to record high scores in matches as they are now shot. They know basic shooting thoroughly, but may never have progressed even the least bit towards practical shooting.

Center-fire .22's and rifles of .25 caliber and larger are not, generally speaking, guilty of this fault and with these guns careful study and experimentation will result in the ability to put the first shot in the bullseye, or game, under varying field conditions.

There are many conditions which make the required elevation and windage zero differ considerably from what may be called normal—that is average sight setting for a clear, warm, windless day on one's home range. Some of these conditions are wind, variations in the firing position, different makes or varieties of cartridges, the angle of light on iron sights, temperature, and barometric pressure (altitude), and with some rifles the condition of the bore —whether cold, warm, clean, or fouled. The effect of wind is usually the only one of these conditions that the shooter takes the trouble to learn.

When a rifleman starts out to find how these conditions affect his rifle and himself he has some job on his hands, but what interesting work it is, particularly to those who are in the least mechanically or scientifically inclined. To discover the effect of these conditions it is necessary to keep a very complete scorebook or other record of the exact conditions under which each shot was fired, and exactly where that shot struck the target. When shots strike away from normal, find out the reason.

Let me take just a few examples to illustrate. Last year a few shooters and I noticed that the amount of elevation required, differed considerably on my home range and on our club range. This difference in elevation is found under all weather conditions and is indicated by the sight setting required after we have taken our warming and sighting shots. If this occurred only with me I would suspect some personal cause, but it occurs with all the good shots who use both ranges, but not necessarily to the same extent with all. As the two ranges differ in altitude by about 1,000 feet we might think it was due to barometric pressure, but it works the wrong way, for the range with the greater altitude requires the higher elevation. I think I have found the reason—firing points differing enough to require different firing positions, tension in holding, and elevation angle in taking up recoil. But I am not sure and it will require another summer of research. Often when I visit some other range to shoot a match I find that I require a still different elevation.

With most of my rifles, of many calibers and velocities, the bullet strikes almost exactly one minute lower when I fire prone with a normally tight sling than when firing prone without any sling. But some shoot the same in either position. How do such conditions affect you and your rifle and ammunition? From a practical point of view it is darned important that you know this.

We spend a vast amount of time and money in testing rifles and developing loads that will group in a minute of angle. But no rifle will deliver the bullets from these loads to the same striking point under different firing conditions likely to occur in practical field firing. Our minute of angle cartridge will surely miss a chuck at 150 yards, or a Jap's head at 250 when conditions cause it to depart at any angle differing by two and one half minutes from those under which we sighted-in the rifle.

We have not placed nearly enough emphasis on this phase of rifle shooting. We spend hours, under ideal conditions, testing, experimenting and selecting rifles and cartridges of amazing accuracy, and frequently neglect the kind of experiment and learning that the rifleman needs for success in hunting and battle.

There has not been enough discussion of these matters in our columns. We need the recording of a whole lot of carefully conducted experiments to give us a better insight into the effect of certain shooting conditions. Details of such experiments should be checked to see that all important matters are included. Do not fail to record the make, model, caliber, and groove diameter of the rifle and any details differing from normal. The same for ammunition, including make, weight, and bullet diameter.

Let us hope your little horde of cartridges will hold out long enough for some of these tests.

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

RE-LOADS . . .

SPECIAL TRIBUTE

Washington, D. C.

Editor:

The Marine Corps is honored by the recent issue of The American Rifleman, dedicated to the Corps.

To us, emphasizing rifle marksmanship in our training and fighting, as we do, this recognition by The American Rifleman comes as a special tribute.

Major Dickson's cover and sketches, and the articles concerning the Corps, are well presented, and should be of marked interest to your general readers, as well as to the men of the Marine Corps.

We thank you and extend best wishes for the future.

T. Holcomb,
Lieutenant General, U. S. M. C.,
The Commandant U. S. Marine Corps.

ENDORSEMENT

Washington, D. C.

National Rifle Association,
Washington, D. C.

Gentlemen:

Americans in war have always been deadly against enemies of their country because of superb leadership backed up by high courage and great skill in the use of weapons.

To defeat the bandit nations which have wantonly attacked us, our men must be trained to make the best use of the superior weapons with which they are armed.

The patriotic program of the National Rifle Association to organize the volunteer effort of its more than 3,000 rifle clubs and hundreds of capable instructors to provide pre-induction rifle training to our men who are soon to be called to the colors means more straight shooting and makes for victory.

Paul V. McNutt, Chairman,
War Manpower Commission.

REASSURING

Washington, D. C.

National Rifle Association,
Washington, D. C.

Gentlemen:

The National Rifle Association's Nation-Wide Pre-Induction Rifle Training Program will give an opportunity to thousands of American men to learn the basic principles of straight shooting prior to entering military service. I am sure that all prospective selectees will take advantage of these benefits wherever it is possible for them to do so.

The place of marksmanship in the training of any soldier of the fight for victory cannot be overestimated. It is reassuring to know that prospective soldiers have an opportunity to learn to use the finest small arms weapons in the world.

Lewis B. Hershey, Director,
Selective Service System.

NOT BLACK POWDER

Minneapolis, Minn.

Editor:

Having served in the Marine Corps from 1907 to 1919 and a member of the rifle team in 1909-10 I read with much interest and gratification the March issue dedicated to the Corps. Mention is made of "pouring two-year-old as-issue black powder ammunition through their Krags." It was my impression that Government-issue Krag ammunition was always loaded with smokeless powder.

G. W. Farnham.

Cleveland, Ohio.

Editor:

May I suggest as the prize entry for your "Any Alibis?" page the statement on page 22 of your March issue in regard to the Marine Corps' squad at Sea Girt in 1901. To quote: "It placed sixth in the field of eleven, pouring two-year-old as-issue black powder ammunition through their Krags."

Walt Heightshoe.

Statement referred to is in error, of course. It was taken from a Marine Corps writing, the author of which misinterpreted a reference in the official Marine Corps record of the match to the effect that the team used two-year-old issue ammunition made before production of smokeless powder had been perfected. This identified the powder as a poorer grade smokeless, but not black powder. "No Alibis," however, The American Rifleman *should have known better.—*Ed.

FROM THE GROUND UP

Oceanside, California.

Editor:

From 1937 to 1941 I was a member of your Association, financial difficulties forcing me at that time to drop out of the Association. I now am and have been a Marine for the past thirteen and a half months. Nobody except a confirmed rifle nut can imagine what going without the Rifleman and the benefit of the Association has been in these last two years. Rest assured, gentlemen, that this will never happen again. N. R. A. training both at home, in the various local and regional matches and at Perry in '38 and '39 has helped me no end in the Marine Corps and was fully responsible for my attaining the rank of Expert with the rifle.

I am and have been for the past year, a member of the Military Police. It is interesting—yes, astonishing—to note that in literally hundreds of cases of drunkenness, A.W.O.L. and other disorderly practices with which we have to contend not one of the men which I have questioned has been a good rifle shot nor was at all interested in rifle shooting any more than he had to be to "just get by."

From this you can draw your own conclusions. You know and I know what rifle shooting will do for a young fellow. The Association is doing a magnificent job in teaching young people *Americanism from the ground up.* Some day, they, like myself, will realize what you really are doing for them.

Corp. Jim C. Normington.

1ST LIEUTENANT "BUCK"

Santa Rosa, California.

Editor:

I just read my copy of the January issue of The American Rifleman, and I wish to state I most heartily agree with the article on page 17—"Give Uncle Sam A Boy Who Can Shoot."

I bought a Stevens Little Scout for my son, Ralph Q. (better known as "Buck"), when he was 5 years of age and taught him to shoot. I was fortunate enough to have been through the basic school at Camp Perry, 1921-1922-1924-1929 and the advanced school in 1938. In 1933 "Buck," at the age of 13, fired on the Railwaymen's International Team and also won the Tyro Championship of the U. S. in the *Open Road for Boys* Match. "Buck" is now a 1st Lieutenant, Infantry, in the Army of the United States and is doing his bit as an instructor in small arms.

Incidentally we are in the same regiment and he is my superior officer.

I couldn't help writing this when I saw your current issue of the Rifleman.

Fred L. Gassman.

AERIAL GUNNERY

A.A.F. Flexible Gunnery School

Editor:

In the January and February 1942 issues of The American Rifleman there was an article entitled, "The Answer to a Problem," by Captain George Van Orden. A footnote referred to a paper prepared by Captain Van Orden in July, 1941, for the United States Marine Corps.

One of our biggest problems here in training flexible gunners is to teach them how to align their sights properly each time they fire a burst. This paper by Captain Van Orden should be of value to us here. If you have a copy to send me or could furnish information where a copy might be obtained I will be very much obliged to you. Any other information you could furnish me on the subject of basic sighting instruction will be of help to me.

Most of your information probably covers rifle (and pistol) shooting. This will help us a great deal because we have found that the .22 caliber rifle is the best introduction to a course of instruction in aerial gunnery yet to come to our attention.

2nd Lt. A. C.

PERSONAL HARDWARE

Mt. Pleasant, Michigan.

Editor:

I expect to go into the Army in the not too distant future and have been wondering whether or not I can take my .38 super automatic or the .45 Colt automatic with me. There are undoubtedly many fellows in my same position who would like to have this matter clarified. Naturally if we're going to be called upon to do a special, low variety kind of skunk shooting somewhere in the Pacific we could put more enthusiasm into the

(Continued on page 40)

JUDGE HILLIARD COMSTOCK

(RE-LOADS, from page 39)

job and get a little more personal satisfaction out of it if we were using our own hardware.

Bert M. Brush.

Because the Army issues uniform weapons in all branches of service, it is contrary to Army policy for civilians to bring their own weapons to camp for military use. We understand, however, that Army personnel who are authorized to carry the .45 service automatic pistol are permitted to provide that weapon themselves if none are available for issue. We suggest you earmark your .45 for future shipment if and when you need it.—Ed.

MARINE ISSUE

Chicago, Ill.

Editor:

The March, U. S. Marine Corps issue of THE RIFLEMAN came today and it's a peach. I think that the magazine is finer and more valuable each month. I would not want to be without it.

Eugene H. Daniels.

UNETHICAL TO SAY THE LEAST

Fort John Custis, Va.

Editor:

As a matter of information I am enclosing an advertisement from the February issue of THE AMERICAN RIFLEMAN by R. B. Champlin, Springfield, N. J., a letter of mine in response to the advertisement, Mr. Champlin's reply written on the back of my letter, and my reply to him closing the matter as far as I am concerned.

I consider such action on his part *unethical to say the least* and not in accordance, as I understand it, with the N.R.A.'s policy on ads.

Edward Dillon, Jr.,
Lieutenant Colonel.

FOR SALE

WINCHESTER HB 52, INSIDE EXCELLENT. outside very good, Parker Hale rear sight, $60.00. B. & L. draw tube, Freeland stand, excellent, $25.00. R. B. Champlin, Springfield, N. J. 2-43

Dear Mr. Champlin:

In the last RIFLEMAN you advertise a B & L draw tube spotting scope and stand for sale. Am enclosing check for $5.00. If you still have it and will advise me I'll send check for balance at once. Also advise of any shipping charges.

Lt. Col. Edward Dillon, Jr.

Dear Colonel:

Demands for my scope and stand have been tremendous. Have already been bid and re-bid until now I have been bid $35.00. I am holding the sale open until Saturday to give all who are interested a chance to bid. I know this is a welcomed opportunity as B & L scopes are impossible to secure today and I have an excellent one with the widely known Freeland stand thrown in. My scope is in perfect shape—as good as new. Think it over. Wire your answer Western Union also cash W.U.—make it $40.00 and if you're high it's yours—otherwise I'll return your money as I am the $5.00 check herein.

R. B. Champlin.

Dear Mr. Champlin:

I have no intention of participating in any "Auction Sale" for your B & L Scope.

Upon seeing your advertisement in the RIFLEMAN I presumed it meant what it said and had I known that my offer would be used as a means to boost the price to some other person as gullible as myself, I can assure you that it would never have been made.

I desire to put you on notice that this matter will be brought to the attention of the N.R.A. for any action the Association may choose to take.

Lt. Col. Edward Dillon, Jr.

N.R.A. BOARD MEETING

At the annual meeting of the Association's Board of Directors February 5th, the Board heard reports of officers covering N.R.A. activities during 1942 and re-elected the entire slate of officers. Re-elected were Judge Hilliard Comstock, President; Lieutenant Commander Thurman Randle, Vice President; Major General Milton A. Reckord, Executive Vice President, who continues in office without pay while on leave of absence; C. B. Lister, Secretary-Treasurer; L. Q. Bradley, Assistant Secretary. The following additional members of the Executive Committee also were re-elected: Brigadier General Julian S. Hatcher; Rear Admiral W. R. Purnell; Colonel F. C. Endicott; Lieutenant Colonel Payson D. Foster; Lieutenant Colonel F. W. Parker, Jr.; Lieutenant R. B. Whittaker; Mr. R. C. Bracken; Mr. E. N. Littleton; Mr. Raymond Stritzinger; Mr. J. W. Woolrey. The Board also passed resolutions voting its thanks to the press of the United States for their editorial policies in encouraging and supporting N.R.A. marksmanship training schools; to the War Production Board, the Defense Supplies Corporation and the Director of Civilian Marksmanship for their support and assistance in the training program; and to the members of the Board of Directors, Executive Committee and Staff of the Association who are in active military service. Highlighted by an address by Major General Alexander A. Vandergrift, recently returned from Guadalcanal where he was in command of Marine Detachments there, the annual Directors' Dinner was attended by many high ranking military and government officials.

LT. COMMANDER THURMAN RANDLE

AVERAGE HUNTER

Roulette, Pennsylvania.

Editor:

We grant that the .250 and .270 Magnums are some weapons, especially for those fellows who have the time and wherewithal to burn up a lot of ammunition and can buy a custom-built rifle. But what about the average deer hunter of the east who may bust a few rounds loose at a chuck who gets too sassy during the summer, but other than this doesn't get much practice. There are thousands of such fellows, believe it or not.

Taking into consideration that these hunters are not capable of placing their shots too well at over 200 yards and maybe not over 50, it looks as though the Magnum is for the expert, not the average hunter. So let's talk about a rifle for the average and poor shots who, like myself, need a medium range, hard hitting weapon.

Having tried a number of calibers we find that the Model 71 Winchester, caliber .348 is just about the berries, the lever action being easy to master thus making the ideal action for such hunters.

The cartridge with 150 grain bullet at 2880 F.S., 300 grains at 2520 F.S., 250 grains at 2320 F.S. give one all the choice to be desired and will put down whitetails with any good solid body hit especially with the 150 grain pellet.

As to the so-called terrible recoil, it is no worse than most 12 gauge shotguns. We have a neighbor lady who uses one of these rifles and invariably gets her deer with it; so a man of average weight should not mind it.

We think that in most magazines the average fellow is a forgotten man, and knowing that the .348 is the killingest popular caliber I hope it keeps on gaining in popularity for the sake of the whitetails that otherwise might be wounded and crawl away to die a lingering death as many have that we find lying in the woods after the season is over.

Francis Greene.

NEW BOOKS:

"THE STORY OF WEAPONS AND TACTICS"

By Tom Wintringham

In a few short years Tom Wintringham has become somewhat of a tradition in England as one of the foremost exponents of guerrilla warfare. From hard-won experience in command of the British International Brigade during the toughest days of the Spanish Insurrection he gained an intimate insight into the defensive potentialities of determined men, armed only with the simplest of weapons, against the most modern of war machines.

With this background it was only natural that Wintringham was called on for assistance in supervising the training of the British Home Guard in the dark hours directly following Dunkerque, when it seemed that at any moment the fate of England might be determined entirely by the staunchness of heart and the collective ingenuities of the homeland defenders. Possibly the swiftness and sureness of this training job was one of the most important reasons why Hitler has never attempted the invasion of what has undoubtedly been his most-cherished goal.

But during his Spanish experiences Wintringham also learned at first-hand the vital importance of *change*—changes in the technique of warfare, the tactics, strategy, equipment, supply transport, training—for success in the *offense*.

This book is a chronological narrative of the major developments in offensive equipment and tactics, from the Battle of Hastings in 1066 to the Siege of Stalingrad, with the antidotes which have been devised for neutralizing each succeeding "secret weapon."

The conclusions drawn are not too clearly defined, nor is there any central theme of personal fanaticism towards favored methods of warfare to the exclusion of all others, as has been the case with many recently published books. But both to the serious student of warfare and the informed civilian this very readable "history" provides much stimulation for further thought.—F. A. M.

"SMALL-ARMS MANUAL"

By Charles T. Haven

Charley Haven's latest manual is an exceptionally comprehensive, concise, well-arranged cataloging of the most useful military and sporting rifles, shotguns, submachine guns and handguns presently available, through government issue and private ownership, for emergency purposes.

State Guard forces, Minute Men and Plant Guards are being armed with the best and most efficient weapons available. Some of these would have been considered obsolete a few years ago. Now, spurred by necessity, we are glad to take these older guns, whereever they may be found, and look to an expert like Haven to find out what ammunition to put in them and what to expect in accuracy and range.

The general characteristics are given for each rifle, shotgun, submachine gun and pistol likely to be used by the State Guardsman together with ammunition best suited for military purposes.

Proper warnings are given on the dangers of certain conversions, in addition to precautions against the use of several popular types of weapons, particularly in shotguns. For safety sake it is suggested that only low-pressure ammunition be used in the older guns, and only in such guns as meet the approval of competent local gunsmiths.

The chapter on knife and rough and tumble fighting, also the final chapter on general firearms tactics are necessarily brief and elementary. However a complete bibliography is appended which makes it easy for the reader to continue studies in these fields.

With the increasing scarcity of factory-loaded ammunition it is hoped that in future editions of this excellent handbook it may be possible to include a simple outline of basic reloading procedure with an expanded bibliography of the most helpful manuals.

In fact I think it would be an extremely interesting addition to our shooting literature if Charles Haven, who has the knowledge and ability, should some day find the time to expand this "Small Arms Manual" to a textbook of nearer 600 pages.—F.C.D.

"A Comprehensive Small-Arms Manual" by Charles T. Haven—160 pages, many illustrations, $1.50. For sale through Book Department, National Rifle Association.

RIFLES NEEDED

One of our largest pre-induction training schools needs some rifles for dry practice. This work includes trigger squeeze, breathing, bolt manipulation and nomenclature. They are asking for Winchester 52 heavy or standard barrels and .30 caliber Springfields. These guns will not be used on the range so barrel condition is of no importance. The school directors would like to secure these rifles for $30.00 or under. They need about 15 rifles. This item is carried here to help along a patriotic endeavor. Get in touch with the N. R. A. Public Relations Division if you have such a rifle as described above and are willing to part with it.

YOUR MAGAZINE LATE?

We are more sorry than you are because late and irregular delivery of The American Rifleman causes us no end of complaints—but—as far as we are able to see your magazines, all of them, are going to reach you on an irregular and usually late schedule until the war ends.

Our printers, short handed, require several days longer to get an issue off the press. The Post Office Department has lost more than 25,000 trained men to the Armed Services. Trains are running late and missing connections. First Class mail is late and irregular—and magazines are handled in the Post Office only after first class mail has been cleared. Mail carriers do not have to carry magazines when their pouches are full of other mail.

If you are trying to buy some second-hand equipment, use a "wanted" classified ad. We are sorry but that is the only solution we can see because matters are going to be worse—much worse—with each passing month until the boys who are too busy to worry about the time of day or date of the month come marching home!

TIMED FIRE

With Bill Shadel

Hold 'Em and Squeeze 'Em. Encouraging signs from Army, Navy and, of course, Marine camps we've visited lately, indicate renewed emphasis on individual marksmanship. The man with the rifle is coming into his own. For the Navy, one of the largest "boot" training centers boasts an all-weather rifle range as fine as anything in the country. NRA Vice-President Thurman Randle (Lt.-Commander) is in charge and with his good NRA members to assist, "boots" are receiving a basic course—learning enough about rifle shooting to give a good account of themselves if called upon to use the rifle in line of duty.

First WAVE to qualify for the Navy's Expert Medal and Ribbon, may well be Ensign Janet Lewis, attractive and skilled Camp Perry competitor, now stationed at the Newport Naval Base. Here's wishing her well in the qualification firing, the first attempt, so far as we know among the WAVES.

Although reports from our riflemen in the service may not always agree, the Army is trying hard to indoctrinate officers and men with the one-shot-one-hit theory. At Ft. Benning, for instance, we found this to be true and that should prove a key point from which to spread such a gospel throughout the Army.

Aerial gunnery schools seem to be giving more attention to the rifle as a basic training weapon, also. In this connection, and of interest to small bore shots, the "in the service" notes should now include the National Small Bore Rifle Champion, Lt. Ransford Triggs, instructor in aerial free gunnery at Hollywood, Florida. Other aerial gunnery instructors heard from—Lt. Fred Molt of Asheville, N. C., now at Pensacola, Fla.; Lt. William Dulaney, at Jacksonville.

Snipers, their equipment, mission, possibilities, seems to be a top military subject of interest among our readers. The matter of equipment, schooling, tactical employment is still subject to the censor's big black pencil, but a round-up of pros and cons regarding types familiar to civilian targeteers or hunters, for what it may be worth to military thought is always in order. C. B. Lister's article, "The Sniper" in our September, 1942 issue has been quoted widely and may be an indication of the possible employment of the crack-shot in the war days ahead. We'll give the subject another "go" from another angle, the matter of 'scope equipment, next month.

So enthusiastic have some of our members been to help along the sniper work, they've wanted to do some reloading; mark the loads for a sniper working for them at the front. Hardly practical, perhaps, but an indication of the thought for some fellow rifle club member over there.

One disappointing observation came from an Eastern camp. The instructors told us,—only two per cent of the boys they were to teach the basic rifle course, had ever even handled a rifle.

D. H. Jenkins

On November 16, 1942 Mr. D. H. Jenkins of Knoxville, Tenn., gun lover and N.R.A. member, died.

For the past several years Mr. Jenkins was in business for himself, the result of a hobby he began long ago. Always interested in firearms, he began collecting guns in his spare time while associated with a Knoxville coal company. This later developed into a personal business and he became a licensed firearms dealer.

Mr. Jenkins was born near Logan, Ohio, and received his education at Ohio Wesleyan University before going to Knoxville. There he built up a wide circle of friends and spent every possible moment with them in the fields, along the streams or in the mountains.

His friends in Knoxville and all the sportsmen of that area who knew him will miss his companionship.

Lt. Col. W. S. Fulton

Lieutenant Colonel William Skinner Fulton, Coast Artillery Corps, retired, well known to N.R.A. veterans of Camp Perry, died at his home in San Antonio, Texas, where he had lived for the past nine years.

A native of Tensas Parish, La., he was a former captain of the Coast Artillery team entry at the National Matches and member of the President's Hundred. His active competitive career extended from 1920 to 1926.

In San Antonio Colonel Fulton was extremely active and served as Boy Scout Commissioner for the past seven years. Surviving him are his widow, Mrs. Daisy B. Fulton, two daughters and a son, Lt. W. S. Fulton, Jr., of the U. S. Army.

Wesley J. Reed

Wesley J. Reed, N.R.A. Life Member and proprietor of Reed's Rifle Range in San Antonio, Texas, is dead.

His passing, October 24, 1942, was reported by his widow, Mrs. Ella M. Reed, who is trying to keep open the target range and firearms business he had built.

Mr. Reed was well known in the San Antonio area as an enthusiastic rifleman and real sportsman.

Edwin R. Wood

One of the most enthusiastic riflemen of Michigan, Edwin R. (Ted) Wood, is dead. He was an active shooter until taken seriously ill last December when he entered the hospital. His health grew worse and he died February 18 after being removed to the Veterans Administration Hospital at Hines, Illinois.

Born at Mt. Clemens, Michigan in 1891, he moved to Detroit about twenty years ago where he became interested in target shooting. His activity then centered around the N.R.A., Detroit Gun Club and later the Detroit Rifleman Affiliate. He was a sparkplug of every organization and one of the most popular shooters in that area.

Albert E. Seidler

Sergeant Albert E. Seidler, Golden Bullet winner as a member of the 1941 All-American rifle team, died February 26 at Fort Monmouth, N. J., where he was stationed.

Well known in intercollegiate shooting circles and in the Washington, D. C., area where he lived prior to enlisting in the Army less than a year ago, Seidler was one of the finest riflemen ever turned out at George Washington University. His Golden Bullet award came in his junior year and his enlistment followed shortly without completing his studies in electrical engineering.

At Fort Monmouth Sgt. Seidler's duties included small arms instruction, and he was attending Officer Candidate School. Prior to entering the service he had been vice-president of the National Capital Rifle Club.

Burial was at the Arlington National Cemetery, March 2.

N. R. A. BASIC TRAINING PROGRAM

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"I HATE RIFLES—"

Private Morton Sontheimer, U.S.A., former member of the San Francisco News staff, has written another in his series, "Letters to the President", detailing his experiences in the services. Here is one of his latest—reprinted from The San Francisco News.—Ed.

Dear Mr. President:

Prepare yourself for a blow.

If I'm going to win this war for you, I'm afraid it'll have to be with something else besides a rifle.

I've been out on the rifle range for the last three days and I'll have to admit, I'm not at home on the range. It isn't that I can't hit the targets. I just can't hit my own, that's all. I made a pretty good score for the fellow on my right. And I had the men on the target three to my left completely baffled trying to figure out how there could be 14 holes in a target at which only 10 shots were fired.

When a soldier misses his target completely, the men on the target wave a red flag inelegantly known in the Army as "Maggie's drawers." The fellows on mine said they're going to get jobs flagging trains when the war's over—they qualified the last three days.

The instructor told us that a soldier's rifle is his best friend, but I must have something that my best friend couldn't stand. It's a cinch that one of us couldn't shoot straight, and the irritating part about it was that that rifle of mine wasn't even consistent.

First it would be shooting too high, and then without any warning at all it would start shooting low, something like a typewriter that doesn't spell correctly.

Heaven knows I went about the job with grim enough determination. In fact I worked the bolt so hard and ejected the empty shell casings so far that one of the officers said, "If that man could only shoot sideways he could hand up a better score with the brass he's throwing out."

They teach us to fire from four positions—lying flat on the stomach (regardless of whether you might have too much stomach to lie flat on), sitting, kneeling and standing, but you fire for record only from the last three. This was a break for me because I'd've had a worse record shooting prone if I could have had a worse record.

On the Camp Kohler range it's not only noisy, it's cold. The wind blows over those targets so hard that after each shot I'd flinch for fear the bullet would come back. I asked the captain about this but he said they hadn't gotten a bullet back yet.

Then he watched me shoot and said he guessed there'd have to be a first time for everything and in three shots he'd seen me shoot in three directions and he was getting out before the fourth. I turned to tell him that remarks like that discourage a fellow, but he was busy digging a fox hole a hundred yards to the rear.

Trouble with me was that the cold made me shiver. You can't keep your overcoat on while you're shooting because the rifle has a leather sling on it that you must tighten over your arm and the coat makes it too bulky. Being of a nervous temperament anyway, I was jittering in one direction and shivering in the other which seemed to agitate my best friend, the rifle.

But Mr. President, if I can ever find a temperature at which I can neutralize my jittering with my shivering, I'm going to be a dead shot.

If not, I'm afraid I'm going to be a dead pigeon.

Yours for more mechanized warfare,—*Private Morton Sontheimer.*

CANDY FOR JERKS

Disappointed over the number of misses being fired by my Basic School class, I told one order we were going to make guinea pigs out of them. I reminded them how, as kids, they used to hit bottles and sparrows with $5 rifles with 10-pound pulls and told them it was because they followed through, keeping their eye on the target to see it hit instead of jerking the trigger. Then we hung targets with black cough drops glued over the nine-ring, and asked them to try to break the candies. The first guinea pig, a lady, smashed three in five shots, also scoring an eight and six. The others all broke some of the wafers, whereas before they had never come near the bullseye.

Sam Kennedy.

STOLEN GUNS

The following is a list of merchandise stolen from John J. Tobler, Sporting Goods, 507 32nd Street, Union City, New Jersey, during the night of March 3-4. All of the rifles are new but the two Colt guns are used. Winchester Model 62 (6201): 155699, 157077, 159388, 156879, 156868, 155535, 155396, 156149, 154714, 154652, 154452, 152982, 154909, 155393, 154574; Winchester Model 63 Automatic: 55531; Winchester Model 70 (7003) .270 Winchester: 51570; Colt Woodsman 6½ inch: 70466; Colt Single Action (Frontier Model) 4¾ inch, caliber .38 W.C.F. (.38/40): 340806. Notify Mr. Tobler.

DOPE BAG ☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

The .45-70 · Repeater, Service, and Single-Shot · The .45-90 · Foreign Calibers · The .50-70 Government · .50-110 Winchester · .50 MG · .505 Gibbs · Other Fifties · .600 Nitro Express · Shotgun Slugs · Heavy Recoil · .400 Niedner Drop · Trade Dope · Letters.

The .45-70 is to me the most interesting .45-caliber for rifles. Once the Service cartridge, in black powder loading, for the old S.-S. Springfield rifle (adapted for not over 30,000 pounds pressure) was an important one. In settling our western states and in the Spanish-American war, it figured prominently, and ultimately the arm and the old ammunition became obsolete and thus easily obtainable from large and widely distributed military stocks. Almost everyone has had speaking acquaintance with this old big-bore Springfield and its flop-doodle hinged breech block. Some of the old black powder ammunition performed extremely well after forty years in storage. The .45-70 is rimmed case with practically no taper.

The rifle load used a 500-grain blunt-nose lead bullet and 70 grains of black powder which gave an m.v. in the 32.6-inch rifle barrel of 1316 f.-s. There was also a cadet model rifle with 29.6-inch barrel and a dolled-up Officers' Model with 26-inch barrel. The carbine had a side swivel-bar and a 22-inch barrel for cavalry use, and the carbine load in the same case was 55 grains of black powder behind a 405-grain blunt-nose lead bullet, which load developed 1150 f.-s. m.v. There were a limited number of carbines issued also with 24-inch barrels.

The bullet diameter was officially .456 inch and the specifications were: three grooves and lands of equal width with a twist of one turn in 22 inches. The maximum range for the rifle was given as 3500 yards with a penetration of 10 inches in sand. That of the carbine was given as 2800 yards when the rifle load of 70 grains was used behind the 405-grain bullet of the carbine cartridge. The chamber pressure was about 25,000 pounds. The recoil of the rifle was given as 14.4 ft.-lbs., and that of the carbine, 7.5 ft.-lbs. The penetration was 19 inches of pine at 100 yards for the rifle and 14.5 inches for the carbine. The remaining velocity of each at that range was 1172 f.-s. and 1018 f.-s., respectively.

At 700 yards the rifle bullet had a remaining velocity the equal of the .45 ACP m.v. and a penetration of 9 inches in pine. Even at 2500 yards the carbine bullet had more than an inch penetration in pine, which corresponds to a dangerous wound. These rifles were fired effectively by expert marksmen up to 1200 yards on military targets. The average accuracy with military sights was 1.3 to 1.7 inches mean radius at 100 yards, 7.6 to 11.7 inches at 500 yards and 17.0 to 26.00 inches at 900 yards. In each pair, the bigger figure is for the carbine. Smaller dispersions have been recorded, or 3.4 inches for the carbine at 500 yards and 11.9 inches for the rifle at 1000 yards. The rate of fire of these latched-breech single shots was 25 shots per minute maximum, and half of that many rounds in average rapid fire from the cartridge box.

In my own .45-70 Springfield rifle I used all the old ammunition I could find for some glorious plinking and offhand target practice. The principal difficulty was getting the lead or allowance right on moving targets, as hangfires required increased allowances. Invariably, the lock time would be normal when such excessive lead was taken in anticipation of a hangfire or delay in the ignition. These old loads were the black powder type, but I did use some semi-smokeless loads and a few rounds of low-pressure smokeless also in that old cannon. No formal groups were made on paper with these old loads, although occasional lots seemed to be accurate.

Another of these old Springfields with blade and peep sights was remodeled by Al Barr and tried on the target from bench rest and shooting stick for record with various handloads. The 300-grain lead bullet for the Winchester .45-60 was used. With light loads for 25 yards, 4.5 to 6.0 grains Pistol Powder No. 5 were used, and 6.5 to 7.5 grains of Bulk Shotgun Smokeless was next best. The best load in this series was 5.5 grains No. 5, but 80% of all loads grouped into 1½ inches or less at 25 yards.

At 100 yards the best load was 26 grains of No. 4759 with a cellophane disk over the powder to hold it in place. This put five shots in 2.58 inches. With No. 2½ pistol primers other good loads were 21.5, 23.0 and 24.5 grains of No. 4759. The groups ran from 3.60 to 4.60 inches at 100 yards; not bad with the slow lock and iron sights. With F.A. No. 70 primers 15.5 and 18.0 grains Sharpshooter also 23 and 27 grains No. 4759 were satisfactory loads, the first load putting ten shots in 4 inches even, and the others ranging up to 4.85 inches. Safe smokeless loads with the 247-grain B.&M. bullet to the 405-grain cavalry-load, lead bullet are: 20 grains of Sharpshooter or 30 grains of No. 1 or Schuetzen.

In Barr's Springfield, tested with the above handloads, we also tried some old factory loads with 405-grain bullets. The black powder cartridge grouped into 4.60 inches at 100 yards, and the smokeless load with the same bullet, into 2.70 inches. In John Coffin's Springfield, with his Patagonian scope sight, these same loads made 3.14 inches for the black powder and 1.82 inches for the smokeless cartridge. In my Pacific Ballard .45-70 with old pitted barrel and open sights they put all but one shot in 2.73 and 1.10 inches, but the two fliers, blamable on the poor sights, made it 6.72 inches for the black powder and 3.39 inches for the smokeless.

Thus in three rifles with three different sighting systems the factory black powder ammunition averaged 4.82 inches, while the smokeless stuff made a mean of 2.64 inches under the same conditions with the same bullet. Another factory load with a 405-grain S.P. bullet was tried in my Pacific Ballard, with a tang sight this time, and I got five shots in 1.32 inches at 100 yards from bench rest. It was surprising how well that old pitted barrel performed. V. E. Layne tried a similar smokeless factory load in his .45-70 Buffalo Sharps, with open sights, shooting from his car I have the 5-shot 50-yard group, which measures 1⅛ inches.

We finally put a scope on my Pacific Ballard for squirrel shooting and developed round ball loads for this purpose, seating them in the mouth over greased felt wads hollowed in the center. Seated deep on top of the light powder charge in the long .45-70 case, they were fair, but not as good as mouth-seated balls with the same loads. Bullseye, in exactly 3.5 grains weight only, and 6 or 7 grains of Bulk Shotgun were satisfactory at 25 yards, but the best loads were 5.0 and 5.5 grains of Pistol Powder No. 5. These loads did nearly as well in Al Barr's .45-70 S.-S. Springfield.

There is another popular .45-70 rifle, perhaps more popular than the single shots, because it is stronger and adapted for high-velocity loads. This is the Model-1886 Winchester lever-action repeater. It is adapted for pressures as high as 40,000 pounds. The Winchester had a rifling pitch of one turn in 20 inches. The .45 Sharps had a turn in 18 inches. All these .45 rifles, including the .45-60, .45-75, .45-90 and .45-125, had a maximum groove diameter of .458 inch, the Sharps about .001 inch larger. The .45-90 and .45-125 have much slower twists of 32 to 36 inches.

The Winchester literature now lists only the 405-grain S.P. bullet at 1310 f.-s. m.v. It drops nearly a foot over 100 yards, and 56 inches over 200 yards. This is perhaps the most accurate and all-around useful load. When I was testing the Model-1886 in this caliber, I had a Noske scope and mount on the left side of the receiver. It was offset ¾ inch to the left and so zeroed, parallel with the bore, to avoid cross-firing at longer ranges. This combination with the factory load was capable of staying inside a 4-inch circle at 100 yards.

The .45-70 High Velocity load, which could also be used in this rifle, drove a 300-grain jacketed bullet at 1885 f.-s. m.v. It dropped only 6 inches over 100 yards, 28 inches over 200 yards and 80 inches over 300 yards. While practical for deer in brush, it was not very accurate beyond 100 yards. With the better loads, or with good handloads, it was surprising to see what could be done with one of these rifles, up to 500 yards, by a shooter familiar with the arm and the trajectory of the bullet. At J. R. Mattern's mountain-side range in the Bald Eagle Valley of Pennsylvania, I have seen the late Nate Mull hit rocks up to 500 yards with his .45-70 Winchester. He told me the trick later, and it involved the reflection of his front bead in the top flat of his octagon barrel. This gave him a uniform and considerable elevation angle with that short sighting radius.

* * *

The .45-90 Winchester is still listed for the same Model-1886 with 300-grain S.P. bullet at 1530 f.-s. It has 1270 f.-s. left at 100 yards where its drop is 10 inches. The bullet drops nearly four feet over 200 yards. On account of the slower twist and lower m.v. the 300-

grain bullet is more accurate here than in the .45-70 cartridge and rifle. Handloads which have been suggested for the .45-70 Winchester with modern components run between 45 and 48 grains of No. 4198 with the 300-grain S.P. bullet, and 40 to 44 grains with the 405-grain S.P. bullet. Lighter loads for these bullets include 16 grains Unique, 20 grains Sharpshooter and 20 to 25 grains of No. 80. The latter No. 80 load gives fairly high head pressure and is not safe in the Springfield S.-S. The .45-90 case is a little longer than the .45-70 and has a bit more taper. The Marlin Model 1895 used the .45-90 load. The .45-60 and .45-75 were used in Winchester Model 1876 and Kennedy repeaters. Besides those mentioned for the .45-70, it was also used in the Hotchkiss repeater. The .45-75 drove a 350-grain bullet at 1470 f.-s. m.v.

* * *

Other Foreign Calibers. We might mention the Jeffery .450 No. 2 with 480-grain bullet at 2175 f.-s. m.v. and 1900 f.-s. r.v. at 100 yards, and the .475 No. 2 loaded with enough Cordite to give its 500-grain bullet 2100 f.-s. m.v. This one had the same remaining velocity of 1900 f.-s. at 100 yards. Griffin & Howe listed this one with 480-grain bullet at 2200 f.-s. with a drop of 18 inches over 200 yards. They also listed a .470 (Nitro-Express) with 500-grain bullet at 2150 f.-s. m.v. which had an inch more drop over the same range. These were all rimmed bottle-neck cartridges.

There were other .45-caliber cartridges loaded with bullets of from 230-grains to 400-grains and variously loaded with black powder (80 to 110 grains) or Cordite (32 to 60 grains). Velocities ranged from 1650 f.-s. to 2150 f.-s. In .50-caliber G. & H. gave the .500-465 2300 f.-s. m.v. and a drop of 16 inches over 200 yards. Jeffery's .500 Rimless had a 535-grain bullet at 2400 f.-s. m.v. with 2150 f.-s. remaining at 100 yards.

* * *

.50-70 Government was a rimmed (inside-primer) center-fire cartridge, whose smooth-base copper case made it look like a rim fire. It had 70 grains black powder and a 450-grain lead bullet at 1240 f.-s. m.v. in a barrel just over a yard long. It was made for various U. S. single-shot breechloaders from the end of the Civil War until the .45-70 Springfield replaced it in 1873.

* * *

.50-110 Winchester was a straight rimmed cartridge for the Model-1886 lever-action repeater loaded with smokeless powder and a 300-grain S.P. bullet to a velocity of 1605 f.-s. at the muzzle. The free recoil was given as 19.5 ft.-lbs. It was also used in Winchester single-shot rifles. Its bullet dropped 8 inches over 100 yards and 44 inches over 200 yards. There was also a high-velocity load which gave the same bullet 2230 f.-s. m.v. It had 1342 f.-s. left at 200 yards and a drop of less than two feet over that range. There was also a .50-100 Winchester with a 450-grain bullet at 1422 f.-s. This one dropped four feet over 200 yards.

For the sake of the record my old Winchester catalog (1925) shows all the longest cartridges required the Model-1895 action, including the .40-72, .405 Winchester, .38-72, .35 Winchester, .303 British, .30-40 Krag and .30-'06. Those used in the Model-1886 action were: the .50-110, .45-90, .45-70, .40-82, .40-65, .38-56 and the .33 Winchester. This should help to clear up any confusion occasioned by the paragraph in the February Dope Bag which prematurely mentioned the .38-72 in place of the .38-70, as intended, for the Model-1886. The .38-72 is covered separately in the March issue.

* * *

.50 Caliber M.G. This rimless bottle-neck cartridge is used in machine guns and by experimenters in bolt action rifles of the Magnum type. They have been necked down to .30-caliber for high-velocity experiments. The exact description is not necessary here. It uses about a 750-grain bullet and nearly 250 grains of powder and develops from 2400 to 2550 f.-s. m.v. and 9600 to 10,600 ft.-lbs. m.e., or more. The primer is very large. Those we have broken down were very uniformly loaded. Any definite information on the current load must be obtained officially from the Ordnance Department of the United States.

* * *

.505 Gibbs. My first interest in this elephant load was aroused by J. R. Mattern's ballistics in the B. & M. Handbook. He gave the 525-grain bullet two different muzzle velocities. At 2255 f.-s. m.-v. it developed nearly 6000 ft.-lbs. of energy at the muzzle. The bullet dropped 16 inches over 200 yards and 40 inches over 300 yards. The other figures were 2456 f.-s. m.v. and over 7000 ft.-lbs. m.e. The bullet drop would be just over a foot at 200 yards and less than a yard at 300 yards. In his own book, Mattern gave the British ballistics with a 550-grain bullet at 2250 f.-s. m.-v. and indicated a gravity drop of about 4½ inches over 100 yards.

The .505 Gibbs is shorter than the Jeffery .475 No. 2 already described. It is about the same in overall length as the .450 Nitro-Express and has about the same shape as the .416 Rigby, but it is much fatter. It is a bottle-neck rimless cartridge with round-end S.P. bullets. It was developed by George Gibbs of Bristol, England, whose load was 90 grains of Cordite behind a 527-grain bullet, claimed to develop 2300 f.-s., and it probably does so in the tropics for which it was intended. This load develops less than 2200 f.-s. in cooler climates.

The old Hoffman Arms Company of Cleveland and Ardmore made the .505 Gibbs on the Magnum-Mauser bolt action. Chauncy Thomas told me about shooting that rifle offhand. Of light build, he said he fought it like a boxer, yielding with its recoil, and stepping backwards quickly to keep his balance. In this fashion he moved back about six feet at each shot. Colonel Whelen tried, rather thoroughly, one of the early importations from Gibbs. Whelen is a big man, and besides he probably did not fire it prone. Still, he said the recoil was heavy, and he imagined it would be unpleasant prone, but not bad enough to be noticed in the face of game. It was heavy enough to make accuracy tests difficult. He used an experimental Dupont powder, similar to I.M.R. No. 16, in charges of 100 grains which gave his 526-grain bullet 2215 f.-s. It was capable of shooting into a 5-inch circle at 100 yards. He saw in it a suitable second-rifle to be carried by the tropical hunter's gun bearer.

The Hoffman rifle, later built, weighed about eleven pounds with 26-inch barrels. The twist was one turn in 16 inches with a groove diameter of .505 inch, mean. The load was 110 grains of HiVel No. 2 which gave the 525-grain bullet 2416 f.-s. m.v. and developed a chamber pressure of just over 45,000 pounds. This, probably, is the combination which Chauncy Thomas fired.

Other Fifties. There were some big blackpowder cartridges for the Sharps S.-S. rifles, and I remember seeing a British double-rifle for the long .500 Henry cartridge. The .577 Double Rifle was more commonly known. Its cartridge had a 650-grain bullet at 2000 f.-s. m.v. and a 750-grain bullet at 2050 f.-s. m.v. The respective energy figures for these were 5780 and 7000 ft.-lbs. m.e. The Jeffery's .577 Nitro-Express (3-inch) used a 750-grain bullet at the same m.v. and had 1875 f.-s. r.v. at 100 yards. There were a flock of .577 cartridges up to 3¼ inches long and in Magnum forms as well. They used up to 90 grains Cordite with 750-grain bullets and up to 167 grains of blackpowder with 610-grain bullets. The .577-450 Martini-Henry used up to 44 grains Cordite with a 365-grain bullet and up to 90 grains blackpowder with 320-grain bullets. Velocities were generally under 1400 f.-s. m.v. The .577 Snider had about the load and ballistics of our .45-70 Springfield.

* * *

.600 Nitro-Express used a 900-grain bullet and from 100 to 110 grains of Cordite with corresponding velocities of 1850 and 1950 f.-s. m.v. The energy developed was in the neighborhood of 7000 ft.-lbs. m.e. This rifle bullet is about the size of the 20-gauge shotgun bore, which is .615 inches. The ⅝-ounce slug of the 20-gauge develops 1410 f.-s. m.v. and 1245 ft.-lbs. m.e. The 16-gauge bore is .662 inch and its ⅞-ounce slug has 1436 f.-s. m.v. with 1600 ft.-lbs. m.e. The ounce slug of the .729 inch 12 gauge has 1470 f.-s. m.v. and 1995 ft.-lbs. m.e.

The Explora type of game cartridge for Paradox 12 bores is loaded with a 730-grain pointed metal-cap bullet, which load develops 1550 f.-s. m.v. and 4000 ft.-lbs. m.e. In 10-gauge, bore-size .775 inch, such conical bullets weigh 875 grains and have the same velocity which ups the energy to 4660 f.-s. m.e. In 8-gauge (.835-inch bore) they weigh 1257 grains and lose 50 f.-s. m.v., but gain in muzzle energy, with 6300 ft.-lbs. The round ball of the 4-gauge (.935-inch bore) weighs 1800 grains and has a velocity of 1330 f.-s. m.v. which develops 7400 ft.-lbs. m.e.

* * *

Rifled Slugs. Muzzle velocities and weights have been given. For the grain-weight multiply the ounce-weight by its equivalent, or 437.5 grains. At 50 yards the 20-gauge slug has a striking velocity of 1213 f.-s. with 1071 f.-s. remaining at 100 yards. The 16-gauge slug has 1243 f.-s. at 50 yards and 1100 f.-s. at 100 yards. The 12-gauge slug has 1269 and 1120 f.-s., respectively, for the two distances.

The Explora cartridge had a heavy lead bullet with a single deep cross groove, made in 12 bore. It had a long pointed brass nose cap. The "Magnum Explora", double-barrel hammerless shotgun, by Westley Richards weighed 7¾ pounds with 28-inch barrels. Its Explora cartridge had a 730-grain 12-gauge bullet with a muzzle velocity of 1500 f.-s.

The Holland & Holland "Paradox", hammerless 12-bore, for ball and shot, weighed 7½ pounds with the same length of barrels. The last inch or so at the muzzle was rifled with wide shallow grooves and a slow twist or pitch. The H. & H. Paradox cartridge had a case with a curved brass head which was joined with its rim by a fillet much like that of the .577 Snider metallic case. Its lead bullet also had the deep wide cross groove;

but, unlike the Explora, this was exposed as seated, beyond the case mouth. This big bullet-groove left two bearing bands in the cylindrical portion, forward of which was a conical-pointed head. Another H. & H. Paradox load had a small-groove lead bullet with a conical head of aluminum which latter was hollow.

* * *

Big Bores and Recoil. When we consider the ballistics of such a cartridge as Jeffery's .600-bore High Velocity Cordite we cannot help being concerned about the recoil. This load has a 900-grain jacketed bullet with a blunt lead nose and 110 grains of powder. The m.v. is 1950 f.-s. and the muzzle energy, 7590 ft.-lbs. It exceeds the odd 7000 ft.-lbs. developed by the 4-gauge lead ball and its 14 drams of blackpowder. All these big bores and heavy loads are intended for short-range game shooting, with heavy guns, from the standing position, and the recoil, under these ideal conditions, is not unduly punishing. It would not do, of course, to shoot these guns from solid-rest positions. Friend Vitt gave up the .505 Gibbs after his first bruising experience in zeroing it prone.

The recoil of shotguns is most commonly and universally experienced and, therefore, best known. The weight of the load and that of the gun are the determining factors, of course. In the little 20 gauge the heaviest load develops 28 ft.-lbs. recoil in a 6½-pound shotgun and in an 8½-pound gun, 22 ft.-lbs., in round figures. In the 16 gauge the heaviest load gives 34 and 26 ft.-lbs., respectively, under parallel conditions. The relative figures for the ordinary 12 gauge are: 47½ and 36 ft.-lbs. For the 3-inch "Magnum" 12 gauge and ordinary 10 gauge the recoil energy would be 68 ft.-lbs. in an 8½-pound gun and 53 ft.-lbs. in a full-weight weapon of 11 pounds. The 6½-pound gun is impractical for these heavy loads.

In a 9-pound 10-gauge I have fired long series of patterns using 1⅝ ounces of No. 4 chilled and the equivalent of 4¾ drams. These loads were new then and they were heavier than now loaded. After my early testing of those first-issue abnormal factory loads, they were cut slightly and so standardized for the market. Their recoil energy was well over 60 pounds. I tested them from 50 to 100 yards, and the No. 4 shot completely perforated current slick magazines of that day at that longest range. The point I would make is that my 125-pound wife participated in the shooting, firing 30 rounds of these heavy loads in an afternoon, without a shoulder pad or any shooting jacket, other than her sweater, and never suffered a bruise from the recoil.

In my own case I have fired the 11-pound 10-gauge "Magnum" with 3½-inch cases and 2 ounces of shot in each barrel, "pulling" both barrels on two different occasions, on account of a "doubling" single-trigger. Although I was knocked off my feet the first time I "let go" with 4 ounces of shot, I did not get a bruise. I have fired a number of these same 2-ounce loads singly, with these "Magnum" shotguns, while prone on my back in a long shallow goose pit, and never got a bruise. The winter game called for warm clothing and, of course, I was well padded. On the other hand, I had my "back teeth jolted loose" by the milder recoil of the 12 gauge while testing rifled slugs from solid-rest positions. I have also been bruised in light clothing with the light 20 gauge pump gun while doing some trick shooting with standard shot loads.

This review of the recoil figures for shotguns makes the 19.5 ft.-lbs. recoil energy of the .50-110 Winchester seem picayune. That of the .35 Winchester is but slightly heavier, or 20 ft.-lbs. The heaviest standard American sporting load and gun in the matter of free recoil energy is the .405 Winchester, and it is the only one which gets into the 12-gauge class by virtue of its 28 ft.-lbs. Our .400 Niedner Sporter on the M-1903 action weighs 8½ pounds and develops 400 f.-s. higher velocity with the same .405-Winchester bullet. Still its recoil is not unpleasant from offhand positions. Even from light portable bench rest this powerful light-weight rifle is not severe on cheek and shoulder. I would rather shoot it prone than the 12-gauge pump gun with rifled slugs.

However, the recoil of this same outfit can become very disturbing. The other day I fired it for bullet drop from solid bench rest. Instead of holding its fore-end as usual, with the left hand, I rested it lightly and held the toe of the buttstock with my left hand Since there were just enough rounds of each load for the gravity test, I had to finish as I started, and both my cheek and my shoulder took some real punishment before I was through with the test. All bullets weighed 300 grains, and were blunt nosed. The sights were metallic.

One lead-alloy load was 25 grains of HiVel No. 3, which gave .45-70 ballistics, or about 1250 f.-s. m.v. These shot into 3 to 4 inches at 100 yards and dropped 13.50 inches. The gravity drop over 200 yards was 55.37 inches. The heavy loads had .405-Winchester jacketed bullets. One, with 67 grains of No. 1044 Exp., made a 1½-inch group at 100 yards and put 4 shots in 3.02 inches at 200 yards, which was very good for peep-and-bead hunting sights. The 5-shot group had one flier, making it 6.70 inches. The drop was 4.05 inches over 100 yards and 16.65 inches over 200 yards. This indicated about 2500 f.-s. m.v. The heaviest load was 66 grains HiVel No. 2 behind the same bullet, which gave close to 2700 f.-s. The groups ran 3.70 inches at 100 yards and 7.03 inches at 200 yards. The short-range drop was 4 inches, and it was 10.82 inches at 200 yards.

TRADE DOPE

Hensley & Gibbs announce they will have to discontinue the manufacture of single-cavity and double-cavity molds for the duration. They will continue to make gang molds from 3-cavity to 10-cavity capacity at their usual price of three bucks per cavity. Their current models have 3, 4, 6 and 10 cavities. This firm is aiding in the war effort by making molds for industrial, guard and police reloaders. When new material is required priority ratings are necessary. Other customers' orders are subject to stock material remaining on hand.

* * *

Frank Mittermeier announces the depletion of his stock of ivory and pearl for making revolver and pistol grips to order. He has a few pairs of finished stocks for revolvers left on hand, and a good stock of staghorn revolver grips and checkering tools. All other tools require priority ratings. Mittermeier still issues his catalog of gunsmiths' supplies and fills orders over week-ends only, as he is working full time every day in a defense plant.

* * *

Lysle D. Kilbourn is doing defense work in a New Hartford plant, and has only his spare time left for customers' orders. It may take several months to get any given K-Hornet chambering job and the rifle owners must accept this unavoidable war-time condition with patience.

LETTERS

Lindahl Lovells. The article "At Last," by David H. Dawson, that appeared in the April 1939 issue of the RIFLEMAN, was read by me with much interest. As an ardent Lovell fan and booster, I agree heartily with what Mr. Dawson has to say; however, I am wondering if he used the original long-taper Lovell, or one of the abruptly shouldered versions, such as the R2.

In connection with these variations of Hervey Lovell's original cartridge, I believe that you might be interested in one that has been developed right here in Nebraska. It is the most accurate version that I have yet seen, and is an improvement on the R2 design, at least, in my own opinion.

Leslie Lindahl, of Central City, Nebraska, designed this little case, and made up the reamers and chambering tools for it. He has chambered a large number of rifles for this case, and several fine Single Shots as well as the conventional bolts.

I, personally, have fired a Winchester SS, several 54's, and a Stevens 44½, and all these have grouped inside one inch. Several of these, notably, the 54's and the Stevens have given consistent groups of ¾ inch or less.

Mr. Clarence Larsen, of Central City, Nebraska, has a 54 Hornet that was rechambered to this calibre. I have seen five shots from this rifle go into half inch frequently, and the groups seldom go as large as one or a fraction more inches.

Joe Keller, of Crookston, Nebraska, also a gunsmith and stocker, has a 54 that has been altered by Mr. Lindahl, and this gun will also give ¾ inch groups. I have seen several five shot groups that were ⅝ inch, and a few ten shots of less than one inch.

Mr. Lindahl's own rifle is a 44½ Stevens with a relined barrel, originally stocked and chambered by Hervey Lovell. With its original chambering, it would shoot into one and ¼ inches consistently. After rechambering for the Lindahl Lovell, the group size shrunk to around ¾ inch, and has remainded there ever since. This is with a charge of 15 grains of 4227 and the W-M, 8-S, 45 grain bullet.

Using this bullet and load, I have seen crows exploded at 270 yards, five killed in a row at 250. Prairie dogs are killed instantly at the same ranges, and are badly mangled. A large dog coyote was shot in the chest at 205 yards with this cartridge. Lived about five seconds, and managed to travel about 25 feet. Heart, lungs and stomach were badly pulped and blown up. This is the most accurate and certainly the most vicious little cartridge that it has ever been my pleasure to shoot, the results comparing in a lesser degree to those given by my big .22-4000 Krag-Davis. Same dynamiting effect, and same blasting shock.

This is my idea of the ideal vermin rifle, and in the hands of a good shot, it will give certain hits up to 250 yards, and sometimes farther. No appreciable recoil, light report, and low cost of shooting make this an excellent little number.—REX JEWETT.

* * *

Bore Line and Sight Line. The members of our rifle club recently got into an argument concerning the flight of a bullet. Here are the details of their discussion.

(A) thinks that a bullet fired from a level barrel will gain altitude while passing through its curved flight.

(B) maintains that a bullet fired from a level barrel will begin to lose altitude the instant it leaves the barrel and will continue to do so while passing through its curved flight.

(B) also believes that a bullet fired from a level barrel will strike the ground in the same length of time as a bullet dropped from the same height. The ground to be perfectly level.

(A) does not believe this to be true and thinks that the dropped bullet will land first.

If the above is true will that hold good for any size bullet? Will a high speed or a necked-down bullet make any difference? Is it possible to load a cartridge strong and fast enough that it will overcome the force of gravity for some length of time or space?

When a gun is sighted at 50 feet and you fire on a 50-yard target, why does the bullet strike a little higher on that target than it did on the closer range? Doesn't this contradict B's first statement? Will you be good enough to settle this argument and also answer the questions for me?—N. M.

Answer: "A" is wrong, and "B" is right. The force of gravity prevails at all times and it affects the bullet even while it is in the cartridge in the chamber of the rifle. The barrel prevents it from falling, but as soon as it emerges at the muzzle it begins falling and this accounts for its curved flight. A bullet dropped from the hand will strike the ground at the same time, but in that given time a fast bullet will travel farther forward than a slower bullet. We are, of course, considering your conditions with the ground level and the barrel level.

In actual shooting we do not fire in that way, because we use our sights to give an angle to the barrel which has the sole purpose of counteracting the gravity drop which is constantly in force. In other words, we elevate our rear sight to depress the rear end of the gun or to elevate the front end or muzzle, the barrel always having an angle and pointing above the target. For this reason, our bullet comes from below the sight line and passes up through the level sight line and above it which is called the mid-range trajectory and then falls back through the sight line at the target. Although the bullet does rise above the sight line, on account of the angle given the barrel, it is always below the barrel line and the projection of the barrel line beginning at the very muzzle. This also explains why a bullet will shoot lower at short range than it will at long range on the target, because it must first come from below the sight line as the bore is below the sight. Regardless of that, it is always below the bore line and falls farther and farther away from the bore line, no matter how high it goes in respect to the sight line.

$1,000 FOR YOUR IDEAS

In the Big Marlin Gun Contest!

The Marlin Firearms plant is now 100% on war production.

Now here's a chance for you hunters and target shooting fans, to *cash in* on your knowledge of guns! Marlin—always on the lookout for new ideas to improve sporting firearms—wants to hear from you. Sportsmen and gun dealers are cordially invited to join Marlin's big Gun Contest—with $1,000 in cash prizes to shoot at. And remember, many a good idea is simple and easy to describe. Your chance is as good as the next fellow's to win a prize. It's easy to get in the contest—read the details below and send your entry in today! Contest ends July 1, 1943.

Jot down your ideas for improving any current model Marlin Gun. Follow the simple contest rules and send your entry in. If you wish, you may suggest new features, not at present in the line. A free catalog is yours for the asking, to review the features of Marlin Guns.

U.S. WANTS IDEAS TO HELP WIN THE WAR

Marlin wants your ideas for SPORTING GUNS. *And if you have an invention or idea that will help win the war, write to the National Inventors Council, Washington, D. C.*

PRIZES IN THE BIG MARLIN CONTEST

The first prize is $500.00 in cash; second prize $100; third prize $50.00; fourteen additional prizes of $25.00 cash each. Seventeen prizes in all! (Marlin suggests the purchase of U. S. Savings Bonds with the prize money.)

JUDGING

Three famous gun editors—Bob Nichols of Field & Stream, Jack O'Connor of Outdoor Life, Maj. Chas. Askins of Sports Afield—will select the winning entries. All ideas for which prizes are given become the property of The Marlin Firearms Company and none will be returned. Prizes awarded for the seventeen ideas which are most valuable and practical, in the opinion of the judges. Duplicate prizes awarded in the event of a tie. WINNERS will be determined and prizes announced as soon as possible.

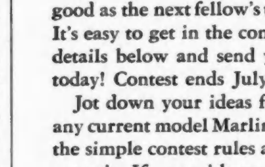
CONTEST RULES

The Marlin Gun Contest is open to all sportsmen and dealers in guns, with the exception of Marlin employees. Written suggestions must not exceed 300 words, the shorter the better. No limit to number of entries which may be submitted. Write name and address clearly on each suggestion. Mail entries to Dept. A, The Marlin Firearms Co., 17 East 42nd Street, New York City.

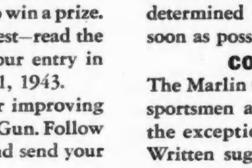
Entries must be received on or before July 1, 1943.

Win cash with your ideas! Enter the Marlin Contest today.

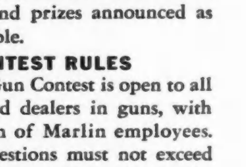
Marlin has been known since 1870 for progress in gun design, quality and dependability. Below are some famous Marlin features:



All Marlin rifles—lever action, clip and tubular magazine and .22 automatic, feature deep-cut, accurate, "Ballard" rifling.



Marlin's Over & Under Shotgun, in 12, 16 and 20 gauges and .410 bore, is hammerless, cocks on opening, has sturdy one-piece frame.



Marlin lever action rifles, in calibers .22, .30-.30 and .32 spec., have the solid-top, case-hardened receiver, with safe side ejection.

THE ARMS CHEST

The Arms Chest is an open market trading post where manufacturers, distributors, purveyors of professional services, and our own readers may cry their wares to fellow sportsmen at a modest cost. Returns are uniformly excellent—scores of advertisers have reported truly phenomenal results.

Advertisements are accepted from annual and life members of the National Rifle Association, *for personal transactions exclusively*, at 8¢ per word INCLUDING NAME AND ADDRESS, minimum charge $1.20. For all *commercial* advertisements the rate is 10¢ per word INCLUDING NAME AND ADDRESS, minimum charge $1.50.

Groups of figures are computed as one word. Spell out all descriptive words; abbreviations may lead to serious misunderstandings and thus impair the effectiveness of your ad. A *specific* price must be stated on all *for sale* ads. Box number or blind ads will not be accepted. Please give your *complete* name and address, so as to insure the prompt delivery of all mail or telegraphic replies. All advertisements *must* be accompanied by cash. Final closing date is the 5th of the preceding month. *Please print all advertisements plainly*—we cannot be responsible for errors due to illegible writing.

In describing the *condition* of guns advertised these standard phrases must be used: *Perfect* means factory condition. *Excellent* means new condition, implying negligible amount of use. *Very good* means practically new condition, implying little use, resulting in no appreciable bore wear and only minor surface scratches or wear. *Good* means moderate use with some finish worn off, only moderate bore wear with no pits and nothing worse than a little roughness in the bore. *Fair* means reasonably hard service, reasonable wear inside, nothing worse than minor pits in the bore, implying the gun is sufficiently accurate for hunting. *Poor* means marred appearance and pitted or badly worn bore.

FEDERAL EXPLOSIVES ACT

Under the Federal Explosives Act of 1941 *all* buyers, sellers and possessors of powder and primers (not complete small arms cartridges) must be licensed. Purchasers must submit their license, or a certified or photostat copy thereof, to the seller at time of sale.

MEMBERS EXCHANGE

A quick, inexpensive medium for disposing of guns and accessories no longer needed, or for the purchase of more suitable similar items. We urgently request that a full description be given of every article offered, and its *condition* (see complete instructions above), for transactions of this sort must be based entirely on good faith and mutual satisfaction. Deliberate misrepresentation will of course result in immediate expulsion from N. R. A. membership.

Purchasers who wish to examine, before acceptance, guns or equipment purchased thru these advertisements should request shipment by express, C.O.D., *with examination privileges.*

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THE REVOLVER TIMING RECORD. A 10 inch RCA-Victor phonograph Record. Practice timed and Rapid-Fire anywhere, by yourself. Nothing to watch—just listen. For "dry" shooting basement and outdoor ranges. One side 10 second timing, other side 20 second timing. Plays on any phonograph. $1.50 postpaid. The Original Sight-Exchange, Box J, Paoli, Penna. 1-44

WINCHESTER 54 HORNET, EXCEPTIONALLY accurate, very good, 48 Lyman, 29S Weaver, detachable cheek piece, sling, 270 rounds ammunition, 60 empty cases, 3100 Sisk and Remington bullets, 2400 primers, about 4 lbs. 2400, 1 lb. 4227, 1 lb. 1204, Hornet dies for Pacific tool, complete record of loads accuracy, $125.00. 25-35 Winchester Single Shot, heavy barrel, D. S. trigger, telescope height target stock, good, interchangeable 32-40 barrel, fair, (relined for Hornet Lovell, etc.), Winchester 5A scope, click mounts, Lyman 25-35 tool, 80 rounds 25-35 ammunition, 53 cases, 20-32-40 cases, 1000 primers, 370 .25 caliber Remington, Winchester and Barnes bullets, about 3 pounds 17½, $90.00. Charles J. Beise, 1344 East 9th South St., Salt Lake City, Utah. 4-43

BARREL ONLY FOR BELGIAN BROWNING 16 Ga. 28 inch, full choke. Good in, very good out. $25.00 or latest 330 Weaver with post reticule. Elden Baxter, Davison, Michigan. 4-43

MOSSBERG SPOTTING SCOPE WITH STAND, $50.00. .22 Remington Rangemaster Palma Target Rifle, new, $87.50. .25 Remington Model 30 Express with 100 87-grain Kleanbore and 220 117-grain Kleanbore, $101.50, excellent. .30-06 Newton set trigger with 40 Kleanbore, $75.50, excellent. .38 Special Officers Model Colt with 300 wadcutters, two sets grips, excellent, $85.00. .22 Colt Police Positive on 38 frame with 1000 long rifle two sets grips, excellent, $75.00. .22 Hi-Standard Model D with 500 long rifle excellent, $62.50. 200 .30 Luger Cartridges, $14.50. 80 .30-06 F. A. Cartridges, $6.00. 50 .32 Remington Auto Cartridges, $2.00. 50 .30 Remington Auto Cartridges, $2.00. 50 .32 Colt Auto Cartridges, $2.50. 500 .22 Longs, $6.00. 150 .22 Shorts, $1.50. Will trade for shot gun shells. See ad in wanted section. Member G. E. Hassler, 2618 Chesterfield Blvd., Norfolk, Va. Reference Midtown Office National Bank of Commerge. 4-43

LARGE STOCK OF AMERICAN AND European Antique Arms. Send 10¢ coin for latest 9th edition catalog, featuring the important Dr. Buck collection. Antique arms wanted. We buy single pieces or whole collections. Fair prices paid. Kimball Arms Co., Woburn, Mass. tf

$1.50 EACH. SPRINGFIELD RIFLE BARrels. .30-06 Caliber. Second hand. Limited supply. We buy Sextants, Binoculars, Field Glasses, Modern and Antique Firearms, any kind, any condition. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa. 4-43

COLT ARMY 45 AUTO, HOLSTER, 2 CLIPS, 110 F.A. '33, $40.00. Finish worn, otherwise very good or better. Hensley mould 4 cavity 230-grain 45 Auto, very good, $8.00. Everett Murphy, R.D. 1, Port Leyden, N. Y. 4-43

VERY ACCURATE ERIC JOHNSON HB WINchester 52, excellent inside, very good out, custom Bishop heavy target stock with cheekpiece, new Vaver W11ATH and new MG52 extension rear with Merit eyepiece, Freeland fore-end stop, sheepskin case and 2000 selected Mark 11. Complete outfit $120.00. Reason: Army soon. Harry Carr, 304 Whitelock, Huntington, Ind. 4-43

REMINGTON 20 GAUGE SPORTSMAN; WINchester Pump 410. Both perfect. $100.00. John Haley, 816 Cline, Frankfort, Ky. 4-43

FOR SALE: STEVENS 6x12 MULTISCOPE, $37.00. Robert V. N. Davis, Box 109, Rutland, Vermont. 4-43

S&W OUTDOORSMAN TARGET, 6 INCH, chambered 357, pearl grips, perfect, $75.00. List of 100 good guns. Stamp. Hershey's, Orrville, Ohio. 4-43

ENFIELD, EXCELLENT OUT, VERY GOOD IN, Bishop stock, ramp front, Marble open rear, barrel length as issued, 500 Government primers. First money order $45.00. Dr. G. A. Vannette, Hart, Michigan. 4-43

COLT .32 AUTOMATIC, FAIR IN, VERY GOOD out, plastic grips, holster, 40 shells, $15.00. Harry Kuhlemeier, 109 Polk, Burlington, Iowa. 4-43

WINCHESTER 62 MINIATURE SKEET RIFLE. Black Products cast aluminum Skeeter Trap. Both excellent. 500 rounds L.R. shot shells. $40.00. 2000 Western Nickel 38 cases in boxes, fired once, $1.00 per hundred. $2.00 with primers. J. B. Crawford, 5400 Carlton Way, Hollywood, Calif. Life Member. 4-43

FOR SALE: CURLY MAPLE, WALNUT and Cherry Stock Blanks. L. G. Stockberger, Garrettsville, Ohio. 5 43

HENSOLDT FEATHERWEIGHT BINOCULARS, with cases. 8x56 Yacht Dialyt, new, 24 oz., $270.00; 7x56 Night Dialyt, new 24 oz., $260.00; 6x30 Universal Dialyt, used, 14 oz., $75.00; also Plaubel Makina 11s Camera with 100mm. f:2.8 Anticomar quick-detachable lens, 3 plate holders, film pack adapter, $190.00; complete standard outfit $255.00; special 75mm. wide angle f:6.8 Orthar lens, $80.00. All equal new. O. L. Hankison, 838 Edison Bldg., Toledo, Ohio. 4-43

PARKER V.H. GRADE 16 GAUGE SHOTGUN. 28" barrels bored improved cylinder and modified. Perfect in, excellent out. $75.00. Dr. R. J. Ackart, #1 Stadium Road, Charlottesville, Virginia. 4-43

WINCHESTER 52 H.B. NEW MODEL 48 REAR, Lyman 77 Front, Sling, Perfect, $75.00. T. E. Armstrong, R. 2, East Liverpool, Ohio. 4-43

S. & W. "357 MAGNUM," BLUE, 4" BARREL, very good plus, $100.00. Satisfaction guaranteed or money refunded. Money order, no checks. O. N. Gregg, 4241 Troost Ave., Kansas City, Mo. 4-43

CARL ZEISS "TELONAR" 12X40 BINOCULARS, I.F., leather case, excellent, $150.00. Harold Newby, 736 Garfield, Denver, Colorado. 4-43

ODD LOTS AMMUNITION, GUNS—Specializing in Single Shot Rifles for .22 conversion. Rare Sharps, Rifles and ammunition. Large list for 3¢ stamp. 10% discount to N.R.A. members. Paul (Single Shot) Ratliff, N4912 Market, Spokane. tf

WINCHESTER 61, OCTAGON, 22 L.R., KING micrometer tang, excellent, $33.00. Remington Auto 12 Gauge, modified, older trigger safety, pad, 70 shells, $21.00. Heavy 26" Titherington 22 L.R., 52 barrel only, small spot middle bore, $8.00. F. R. Frane, Orange Cove, Calif. 4-43

MODEL 70-06 WINCHESTER STANDARD Grade and sights, original carton, perfect, never fired, $85.00. Jason Hailey, 3800 Euclid Blvd., St. Petersburg, Fla. 4-43

COLT .22 CAL. MATCH TARGET, PERFECT, sheep skin holster, $68.00. Another better than excellent with sheep holster, $64.00. 120, 300 Magnum ammunition, 220 grain, $14.00 per hundred. 250, 35 Winchester Self Loading ammunition, $5.75 per hundred. 60, 6mm Lee Straight Pull ammunition, $16.00 per 100. 40, 401 Winchester Self Loading, $9.00 per 100. 200, 257 Magnum, $5.20 per 100. 100, 38x56 Winchester, $9.00 per 100. 250, 44 S. & W. Russian, $5.20 per 100. 80, 7mm, $11.00 per 100. V. H. Saul, Douglas, Wyo. 4-43

COLTS: 45 AUTO, NEEDS BLUEING, $25.00; 45 D.A. 1878, 4¾" bbl., fair, $15.00; 38 Police Positive, holster, excellent, $42.00; 38 D.A. Army, 6" bbl., good, $20.00; 38 Bankers, perfect, $45.00. Ray Young, 183 Main, New Britain, Conn. 4-43

FOR SALE: CUSTOM BUILT SPRINGFELD Sporter, .30-06, with case, nickel steel receiver, Sedgley barrel, excellent inside and out except small blueing blemish on barrel, Lyman 48 rear, ramp front sight 17A, fitted with scope blocks, recently restocked, stock beautifully checkered with cheek piece, pistol grip, sling swivels. First certified check or M.O. for $100.00 gets this. Life Member N.R.A. Major H. L. Koenig, Ordnance Reserve Corps (inactive), 1717 9th Street, North, St. Petersburg, Florida. 4-43

32 AUTOMATIC, COLT, REBLUED, EXCELLENT in, pearl grips, 2 clips, 75 rounds, holster, $30.00; 10X Targetspot, center dot, $52.00. Consider trade Jordan tool. H. Gould, Alfred, N. Y. 4-43

WANTED—

H. G: O & U, 12-32", M & F, S. S. T & S. E. Must be good or better.

The above is not a real ad but it is typical of many that we receive every day.

Can you read it? It's clear enough when you take time to figure it out, but there are possibilities for misunderstanding that would not exist if the ad were written in full.

The above ad with each word written out would cost very little more than the way it now appears and it would be many times more effective.

Help us serve you better. Print your ads plainly. Do not abbreviate descriptive terms. Mail your ad in EARLY.

Closing date for the May issue is April 5th.

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All Guns Stay Better with HOPPE'S No. 9

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NATIONAL MATCH SPRINGFIELD #1370595 AS issued. Fired only in National Matches Camp Perry, Ohio, 1936 by myself. Practically new, Excellent. First $75.00. John Harness, Dinuba, Calif. 4-43

SMITH & WESSON 32-20, M & P, 6", BETTER than Excellent; Reloading tools, ammunition, primers, powder, bullets, belt and holster; $55.00. 30-06 cases; 325 new primed; 213 primed, resized, shot once, selected; 437 de-capped, resized, shot once; 150 clips; $33.00. 250 Winchester Roberts .257 100 gr. bullets; 300 Remington Roberts .257 87 gr. bullets; 100 Rem. 25-35 Hi-Speed Mush. 87 gr. bullets, $24.00. 1750 Remington 1½ N.C. & N.M. primers, $16.50. Mark V. Kibbe, Ulysses, Pa. 4-43

KILBOURN-HORNET, DEADLY ON chucks and crows. 3,000 F.P.S. velocity with 45 gr. bullets, 2,900 F.P.S. with 50 gr. Your Hornet rechambered, $5.00. Magazines altered for long bullets. Winchester, Savage, $2.00. Lysle D. Kilbourn, New Hartford, N. Y. tf

S. & W. 44 SPEC., VERY GOOD, PACIFIC Reloading Tool, Cramer #7 Mould, 2800 #2½ Primers, 2½ Cans Bullseye, 100 Factory Cartridges, 100 Reloads, Ideal Lubricator and Sizer, Ideal #5 Measure, Complete outfit, $120.00. Winchester 52 Heavy Barrel, fired 50 times, no iron, Lyman 8X Targetspot, very good, $130.00. Redfield Mount, Jr. 30, for Weaver, $10.50. WANTED—Woodsman, 4½ inch barrel. J. Heffron, 826 West Ninth Street, Davenport, Iowa. 4-43

FOR SALE—WINCHESTER 63 AUTO, MOSSberg 4X scope. 500 .22's, excellent, $50.00. Savage, 32 Auto, 100 rounds ammunition, very good, $20.00. Henry's 1860, lever action, .44, 30 rounds ammunition, good, $25.00. Colts cap and ball, converted to 38 center fire, 50 rounds ammunition, good, $12.50. Ballard action for heavy target barrel, good, $10.00. Colt's 380 Auto, excellent, with holster, $25.00. 22 target pistol, made on Stevens action by 1st class gunsmith, peep sight, bore excellent, finish, good, $15.00. Money orders. George W. Somerville, Gallatin, Missouri. 4-43

KRAG SPORTER, EXCELLENT IN AND OUT, Pacific peep, sling, $25.00. William Foster, 1441 N. Austin Blvd., Chicago, Illinois. 4-43

BROWNING AUTOLOADING 12-28 IMP. MODEL, Excellent, $65.00. L. C. Smith 20 Gauge double, selective ejectors, worn finish, some pits, $25.00. Noske 2½X scope, Redfield mounts for Winchester 70, very good, $50.00. Want—Woodsman 4½" regular and 6½" match grade with 22 L.R.'s. Waldo Johnson, R. 3, Adrian, Michigan. 4-43

BROWNING O&U, MOD. AND CYL. RIBbed, $85.00. List of 100 good guns. Stamp. Hershey's, Orrville, Ohio. 4-43

WINCHESTER 64, SPECIAL, $65.00; K-22, $65.00; Kit Gun, $45.00. All excellent. W. Thomas, 912 Penn, Reading, Pa. 4-43

22 COLT O. M. TARGET REVOLVER, EXCELlent in, good out, recessed cylinders, leather holster, $50.00. 37 Remington as issued #00025, excellent in, good out, $65.00. Bausch & Lomb 6x30 Military Setreo, individual focusing, heavy leather case, $50.00. Mohrson Binocular 8X France, heavy leather case, $25.00. .38 Colt Police Positive, blued, 5", good in and out, $30.00. W. H. Icenhower, Washington C.H., Ohio. 4-43

COLT M. T. WOODSMAN, SPECIAL 5" BBL., ⅛" sights, Roper grips, perfect, $60.00. Colt .380 Auto, blue, ivory grips, King sights, arched housing, perfect, $40.00. S. & W. Kit Gun perfect, $50.00. S. & W. 32 Long, hand ejector, blue, 3¼" bbl., perfect, $40.00. S. & W. Ladies Model .22 Cal., blue, 3" bbl., perfect, $40.00. S. & W. Triple Lock Model Target, 44 Special, 6½" bbl., ⅛" King's ramp reflector front sight, almost perfect, $60.00. S. & W. 1926 Model Target, 44 Special, 4" bbl., King's full length rib sights, two front blades, wide hammer spur, perfect, $75.00. S. & W. 44 Russian Target, blue, 6½" bbl., ⅛" Patridge sights, almost perfect, $50.00. High Standard, 22 short, 4½" bbl., perfect, $32.00. Ithaca 37R, 16-28 modified, new, $65.00. Ithaca Field Grade 12-28, cylinder and modified, excellent, $42.50. Several thousand cartridges, and shells for above guns. 4000 Remington #1½ Primers, $8.00 per M. WANT—Excellent 16 Gauge Double, 26" bbls., S.S.T., ejectors, preferably, Smith specialty; Winchester Model 21. No C.O.D.'s Will refund money if not satisfied, 10 days. R. E. Ferqueron, Meigs St., Athens, Ga. 4-43

30-'06 SPRINGFIELD SPORTSMAN, $55.00; 30-30 Winchester Carbine, $37.50; Ithaca 10 Gauge, Excellent, $50.00; Ithaca, 12 gauge, $35.00; Winchester model 12 and 97, one 12 gauge, one 16 gauge, $25.00 each; .380 Colts, nickel plated, new, $30.00; .410 Shapleigh, new, $15.00. Trade 3 Boxes 30-30 for carton .22 Long Rifle Cartridges. Have following caliber ammunition: .22 Centerfire, .30 Remington, .30-'06, 12, 16, 20, 10, .410, 25 rim fire. V. L. Olmstead, Ponca City, Okla. 4-43

WINCHESTERS: M/70, STANDARD WITH LYman 48WJ, perfect; 22 Hornet, 220 Swift, 250-3000, 257 Roberts, 30-06, $88.00; one 250-3000 open rear, $75.00. Major T. R. Geisert, Office of Camp Quartermaster, Staging Area, New Orleans, La. 4-43

SELL—BROWNING OVERUNDERS; Winchester Ventilated Trap; 30-30's; 52's; Modern and antique pistols, rifles, shotguns. Want—Good Pumps; Autos Heavy Tens. List for stamp. Fred X. Johnson, Grand Ridge, Illinois. 4-43

FOR SALE—COLTS 45 COMM., GOOD, NEWLY blued, beautifully engraved ivory grips, holster, 2 boxes ammunition, $55.00; Zeiss 8x30 Monocular, new, $40.00; Altimeter by Aitcheson, London, 8000 ft., with compass and thermometer reverse side, fine condition, $20.00. C. O. D. examination. W. Cyris, 2425 W. Washburn, Chicago. 4-43

GENUINE LUGER 7.65 "AMERICAN EAGLE" squeezer grips 4½ barrel commercial finsh, new, never fired, $65.00. Colt Detective 38 Special, Good to Excellent, holster, $38.00. Schmitt #12 Loading Tool, complete, 38 Special dies, Excellent, $35.00. Will trade—5500 22 L. R. Remington for Excellent to Perfect 357 S.W. Magnum target sights. 4000 for excellent to perfect Colt Shooting Master 44 Spec. target. A. P. Hedlund, 219 Metropolitan Bldg., Minneapolis, Minn. 4-43

SPECIAL SALE OF NEW AND USED shotguns and rifles. List ready. Stamp please. Kimball Arms Company, Woburn, Mass. tf

.45 COLT S. A. A. 7½", GOOD, BOX CARtridges, $28.00. Savage 32 Auto, good, cartridges, $16.00. 32 Harrington and Richardson 2" hammerless, $10.00. Ammunition: 2 boxes .38 Special, 2 boxes .25 Colt, 3 boxes .25-35 soft point, all $1.75 box; 5 boxes 180 .30-40 silvertip, $2.25 each. J. Temple, 1409 Chalmers Detroit, Mich. 4-43

AMMUNITION, IMPORTED ENGLISH, 50 rounds Rigby Special .450 Big Game, $12.50; 10 rounds .416 Bore Rigby Magazine, $2.85; loaded by Griffin & Howe, 140 rounds 350 Magnum belted, reduced and full power loads, $15.00. Guns, Winchester S.S. for .22 Short, barrel good, action and stock very good to excellent, $10.00, L. C. Smith 12 Gauge, full choke, plain ejectors, Crown steel, 30" barrel. E grade, very good, case and rod, $45.00. WANT—Winchester .25-20 Carbine, and Remington Model #24, .22 L. R., condition of barrels immaterial. James Garvin, 1720 Santa Rosa St., San Luis Obispo, Calif. 4-43

WINCHESTER 70 BULL 300 MAGNUM, EXCELlent, no sights, very accurate, $90.00. N.R.A. Bausch and Lomb Prismatic Scope, 19.5 power, excellent, $50.00. Good 98 Mauser Sporter, Bishop stock, Pacific gold bead front, 48 rear, 2 boxes soft point, $36.00. Very good Winchester A5 Scope, Lyman fieldscope mounts, $25.00. WANT—S. & W. .357 Magnum, .38 Officer's Heavy Barrel or other Target Handguns, 12 Gauge, Browning Auto. Leroy G. Black, Box 378, Trona, Calif. 4-43

MODEL 12 WINCHESTER HEAVY DUCK GUN, with Weaver Scope, 33 boxes of 3" shells; 16 Gauge Browning Automatic Shot Gun; write T. A. De Werd, Milbank, S. D. 4-43

FOR SALE: REMINGTON SPORTSMAN AUTO, 3 shot, 20 Gauge, 27" barrel Poly Choke fitted, brand new, $85.00 money order. Robert Cross, Milbank, S. D. 4-43

NEW CATALOG #22 DESCRIBING OVER 1500 Bargains 25¢. Modern and Antique Firearms, Accessories, War Relics, Binoculars. 6x30 B. & L., $58.00. 6x30 Goerz, $58.00. 5X Imported Scope, mounts, $12.50. 50CF Ammunition suitable .50-70 Springfield 9¢. .45-70, $2.00 box. 22 L.R. Stevens-Pope Schuetzen, $58.00. .22 Stevens Lord Rifle, $20.00. .32-40 Ballard Schuetzen, $30.00. .30 Cal. Standard Auto-Pump, $44.00. .44-40 Colt Burgess, $34.00. .44 Henry, $28.00. .22 Knuckleduster, $18.00. .32 Paramount Auto, $18.00. .32 Ortgies, $25.00. .32 Dreyse, $24.00. .32 Savage, $25.00. .35 S. & W., $28.00. .45 Colt, $44.00. .25 Colt, $21.00. New Luger, $45.00. .38-40 Bisley and cartridges, $42.00. Large selection Autos, Frontiers and C. & B. Revolvers. John Smith. Rambler Ave., Runnemede, N. J. 4-43

WINCHESTER ENFIELD, BEAUTIFUL REMODeling job, Bishop stock, Redfield rear sight, $65.00. Two 32 Colt Automatics, good, $22.00 each, 20 rounds apiece; Kar Mauser, remodeled issue stock, good, 30 rounds, $30.00. 303 Ross Sporter, good, $25.00. Issue stock and hardware for Enfield, $3.00. Straight stock for Savage 99, $3.00. 32 Shot Drum for Luger, $3.00. 44 Colts Cap and Ball Dragoon, mechanically perfect, finish worn, $20.00. Remington 44 Breach Loader, 7½" barrel 1861, almost perfect, $25.00. Member. Ira James Moody, McGregor, Iowa. 4-43

EXCELLENT COLT OFFICIAL POLICE .38 SPEcial 4", $50.00. S. & W. Outdoorsman 6½" .38 Special, very good, $60.00. Same .44 Special, $60.00. 55MM B. & L. Prismatic Scope, very good, $75.00. Excellent 6½" S. & W. .357 Magnum, King Cockeyed Hammer, $95.00. Model D Hi-Standard, very good, $50.00. Very good .38 H. B., O. M., Buchanan short action, Roper front sight, $65.00. Very good .45 National Match, new barrel, King adjustable sights, Buchanan accuracy job, $75.00. .30-06 Service Springfield, good, $40.00. Good, Conn C Melody saxophone, $35.00. Frank J. Gerlich, 386 Blackhawk Road, Riverside, Illinois. 4-43

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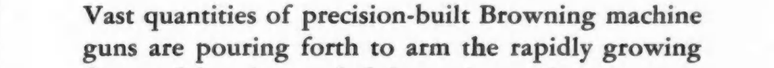

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RICHTEN DRAWING SET, GERMAN SILVER, units interchangeable, condition excellent, $25.00. Cash or swap S and W or Colts of equal value. Paul Wakefield, Coalgood, Ky. 4-43

MODEL 8 REMINGTON AUTO .35 CALIBER, Good; Lyman Peep Rear, Ivory Front, 26-200 Grain Shells, First money order $50.00. H. Martini, Piermont, N. Y. 4-43

WINCHESTER 70, 22 HORNET, EXCELLENT, Redfield Jr. mount and Weaver 29S scope; 1500 Western #6½ primers, 500 Western 45 Gr. 22 S.P. Bullets, 500 Sisk 35 Gr. 22 S.P. Bullets, 400 Sisk 41 Gr. 22 S.P. Bullets, 200 Wotkyns-Morse 40 Gr. 22 S.P. Bullets, Complete outfit, $165.00. J. G. Mundy, 432 Andrews Avenue, Glenolden, Pa. 4-43

70, 220 SWIFT, NEW CONDITION, LYMAN 48, Weaver 330-C scope in Turner mount, custom mounted, Whelen sling, 14 boxes ammunition, cost $170.00, sell $155.00. Stanley Fairly, c/o Citizens National Bank, Waco, Texas. 4-43

FOR SALE: 41 SWISS SHOT CARTRIDGES, 75¢ box. Athens Hardware, Athens, Georgia. 4-43

SALE—S. & W. 32 TOP BREAK, $10.00; STEVENS 22 Off Hand, 6 in., $6.00; Stevens 25 R. F. 10 in. shells and holster, $10.00. Chas. Baxter, 81 Bowen St., Oshkosh, Wis. 4-43

THE ORIGINAL SIGHT-EXCHANGE, BOX J, Paoli, Penna. Gun Sight Specialists. Mail us your old sights and tell us what you want. 1-44

M. & P. .38 S. & W. SPL., 6 INCH BARREL, FACtory sights, round butt, perfect inside and out except slightly holster worn; 82 rounds ammunition, smokeless, corrosive primers; leather holster with leather flap; outfit, $47.00. F. H. Millard, 515 Cotton Belt Bldg., St. Louis, Mo. 4-43

SELL—30-06 SPRINGFIELD, VERY GOOD OR better, $40.00; New Service .357 Magnum, excellent, $75.00; Smith and Wesson combination .32 pistol and .38 revolver, excellent, $50.00. WANT—Winchester Model 61, octagon, for shorts; 40-82 Winchester Model 1894 tool and cases, mould for .33 Winchester, target rear sights for Smith and Wesson Russian and Model 1891. S. L. Pierson, P. O. Box 1007, Oklahoma City. 4-43

32/20, S.W. M&P, 6" BARREL, WALNUT GRIPS, very good condition. Redhead open holster, 400 rounds ammunition, $50.00; Favorite Stevens, 22LR, 50 shells, $6.00; Percussion .36, walnut half stock, 39" barrel, DST, brass trim, reworked ready to shoot, $15.00; ½ pound Elon $2.50 F.O.B. Gerald Kelver, 906 E. Jackson, Elkhart, Ind. 4-43

QUITTING SHOOTING GAME. WILL SELL rifles, Shot Guns, Revolvers, modern, obsolete, relics. Many Single Shot Rifles. Scopes, Spotting Scope, Cartridge Display, Reloading Tools, Ammunition, Components, miscellaneous items. Big List, 6¢. John S. Kelly, 315 Washington St., Bismarck, North Dakota. 4-43

COLT .44 NEW SERVICE WITH SPECIAL 2" barrel, $85.00 special job; S. & W. .44 Heavy Duty Revolver $55.00. Robert W. Knight, Seneca Falls, N. Y. 4-43

ENFIELD SPORTER, 24" BARREL, 5 SHOT, good. Issue stock, pistol grip, higher comb. Springfield front, military rear with windage. 120 rounds, 1918, and 600 rounds, mid-range, $55.00. Won't sell separately. Winchester High Wall .22 Single Shot, good. 750 Kleanbore and 500 Wards Long Rifle, $35.00. Won't sell separately. Primed and neck sized .30-06 empties, 164 for $3.00. Empties only, 478 for $4.50. A. Trykoski, 2633 West Haddon Avenue, Chicago, Illinois. 4-43

22 LONG RIFLE SHELLS. STANDARD brands, fresh stock. $10.00 per carton (500) nothing less than one carton. Money order, no checks. Chas. Cooper, 1801 West 50th Terrace, Kansas City, Mo. 4-43

WINCHESTER MODEL 70, HORNET, SCOPE blocks, new, $69.00. Custom Hornet, engraved Martini action, Lyman rear, King ramp reflector front, cheek rest, perfect, $80.00. Ithaca Model 37 Featherweight 20-28 full, new, $49.00. Stevens "Walnut Hill" Model 417, Lyman ext. rear, 17A front, custom maple stock, cheek rest, very good, $52.00. Ammunition sold with rifles. K. B. Spaulding, 41 Weed Hill Ave., Springdale, Conn. 4-43

COLT ARMY .45 AUTO, GOOD, AND 50 cartridges, $50.00. .45 Auto cartridges, $5.00 hundred. Ernest Swafford, Ft. Scott, Kansas. 4-43

SELL: SCHMITT 12 RELOADER .257 CAL., complete with dies, including full length resizer, all excellent, $26.00. Winchester 70 .257 cal., 48 Lyman, box factory Core-Lokt, 80 reloads, $75.00. WANT—Weaver 330S or 440S, cross wires, Stith mount for 70. Oliver Kvale, Conger, Minn. 4-43

ORTGIE FIRING PINS, $1.25, 25 AND 32 caliber. Sim Sales Co., Dept. D, 2914 Pine Grove Ave., Chicago, Ill. 4-43

30 CALIBER METAL CASE GOVERNMENT Bullets, 74, 150 Gr.; 317, 172 Gr. B.T.; 154, 169 Gr. Gas Check, 150 Clips. All $8.00. Claude G. Kaelin, Buhl, Idaho. 4-43

HI-STANDARD, MODEL H. E., 22 L. R., 4½" barrel, thumb rest grips, trigger shoe, extra magazine, factory box, perfect, $60.00. Hartford Single Shot .22 L. R., 6½" barrel, target sights, excellent, $19.50. Webley Air Pistol, Mark I, 177 Cal., excellent, $17.50. Telescope, 4 tube, 25 to 75 power, good, $17.50. $100.00 buys all. Fred Van Order, Macomb, Illinois. 4-43

JOB LOT OF 25 AUTOMATIC CARtridges, $13.50 a thousand. No C.O.D. orders. Model 14 Remington, 35 caliber. Very good. $46.95. Passon Sport Center, 507 Market Street, Philadelphia, Pa. 4-43

JOHNSON 10 H.P. ALTERNATE TWIN OUTboard motor, good condition, $135.00 F. O. B. WANT—Cutts 16 gauge full tube; Also .22 target revolver. M. P. Lipe, Jr., Box 514, Hickory, N. C. 4-43

SEDGLEY 30-'06, REMINGTON ACTION, ALtered bolt, 22" barrel, Lyman 48, recoil pad, Q.D. sling bases, 2¾ Hensoldt scope in bridge mount, 3 years old, excellent, 60 sporting and 60, 172 gr. service cartridges, $115.00. S&W 44 spec. 5" barrel, magnum grips, trigger guard cut out, 15 months old, perfect 85 cartridges, $50.00. Krag carbine, remodeled stock, very good, 30 cartridges, $25.00. New inletted Bishop Krag stock, $6.00. Ford Dann, 1203 West Main, Marshalltown, Iowa. 4-43

HANDLOADED AMMUNITION: .38 SPEcial, midrange wadcutters, $3.00 per hundred. Full charge wadcutters, $3.25 per hundred. Full charge Keith magnum bullet, $3.50 per hundred. .45 Auto, midrange wadcutters, $4.00 per hundred. Rex Jewett, Ord, Nebraska. 4-43

44-40 COLT NEW SERVICE 7½ BARREL, excellent with shoulder holster, $40.00; .44-40 Ideal tong reloading tool, $2.00; Belding & Mull 26 reloading tool, complete for 30-'06 except no decapper, but with extra head, neck die and expanding plug for 44-40, excellent, $7.00. Box commercial and box reloads, 44-40, $2.00; 200 empty 44-40 cases, $1.00. American Rifleman 1937, 1939, 1940, 1941, 1942 complete; also 1931, 1936, 1938 minus November 1931, January, February 1936, June 1938, $5.00 takes all Rifleman. L. H. Smothers, 407 Mill, Conneaut, Ohio. 4-43

$1.00. GOVERNMENT LEATHER HOLSTERS for .45 Automatic Pistols. Slightly used. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa. 4-43

3,000 LONG RIFLE KLEANBORE AND EXPERT, $45.00. Winchester Model '42 Full 410, 6 boxes shells, V.G. to excellent, $42.50. Winchester Model 92 Solid Frame 25-20 new barrel 75 cartridges, $22.50. Lyman 5A click mounts, excellent, $32.50. M. H. Jones, Box 1111, Fargo, North Dakota. 4-43

SAVAGE, 430, 20, SINGLE TRIGGER, NEW, $55.00. DuPont, 3031, 4064, Hercules 2400, $1.60. Ideal tool for .32-20, complete with bullet mould, new, $8.50. Standard Bullets sized and lubricated for .38 Special, .32-20, $1.25 hundred, 45 Auto, $1.50. Milo Hill, Caledonia, Ohio. 4-43

.38 SUPER AUTOMATIC COLT PISTOL, FOUR extra magazines, three boxes of factory cartridges, all excellent to perfect, $65.00. Ernest H. Abbott, Johnsonville, New York. 4-43

COLT FRONTIER PARTS, LARGE SUPPLY. No bolts or barrels. Colt and Remington percussion parts, gun locks, moulds, flasks, etc. List, 10¢. James Serven, Santa Ana, California. 4-43

WINCHESTER 54, '06, NOSKE "A", #48, custom stock for lefthander, $125.00. 95, .30-40, Lyman #38, $60.00. Both very good outside, perfect inside. Zeiss 8x30, individual focus, case, $125.00. J. L. Barnes, 1560 10th Ave., Arcadia, Calif. 4-43

1941 INDIAN SCOUT, ORIGINAL TIRES, V.G., spotlamps, leather bags, excellent condition, $420.00. Winchester #21, 12x28, O. & M., S.E., excellent, $80.00. 23-A, good, $17.00. Winchester #90, good, $15.00. 1,000 late .30-06, $60.00. WANT—.22 Pistol, #70 Hornet and '06, .38-44 Outdoorsman or similar. W. W. Bates, Route #2, Columbia, S. C. 4-43

D.H.E. PARKER 12 GAUGE 28 IN. I. C. & M. imported butt plate, single trigger. Perfect. $175.00. Winchester 52 Sporter Weaver 330 Scope with extreme low demountable mount by Griffin & Howe. Also Targetspot blocks. Perfect. $125.00. Jeffrey's Magnum Sporter rebarreled by Sedgley to Winchester .270 caliber with 40 rounds fresh ammunition. Handsomely engraved, perfect in, excellent out. $110.00. E. Amerman, 83 Burns Street, Forest Hills, N. Y. 4-43

CARL ZEISS DELTRINTEM 8 X 30 BINOCULars, new condition, case, $110.00. Philip Di Figlia, 699 Bushwick Avenue, Brooklyn, N. Y. 4-43

SHOOTING MASTER .38 SPECIAL, EXCELlent, $66.00. N. R. A. Spotting Scope, 26X, perfect, $62.00. Walnut Hill, 417, Vaver tang, Vaver front, $70.00, excellent to perfect. S. A. Rawlins, 409 West Summit, Lead, So. Dak. 4-43

SELL: DAVIS DELUXE, DOUBLE HAMmerless. 12-30 modified and full, modern steel barrels, automatic ejectors, very good. $35.00. BUY—Good .351 Winchester Auto. F. A. Baker, Donnelly, Minn. 4-43

FOR SALE: MODEL 61 .22 WINCHESTER Pump, Excellent, Bean sheepskin case, 500 Winchester Staynless Long Rifle Cartridges, Outfit, $37.50. Wollensak 5 x 20 Varipower Telescope, Like New. $15.00. .44 S&W Russian Revolver, 4 in., Finish gone, Accurate, Dependable defense gun, $25.00. Following factory cartridges: 100 Western .38 Special Wadcutter Midrange, $4.00. 50 Peters High Velocity .45 Automatic, $3.00. 35 .220 Winchester Swift, $3.00. Russell Elder, Griffin, Ga. 4-43

REAL BARGAINS: .22 LR BULL GUN, M52 action, Olympic stock, Redfield detachable front, 48 rear, $47.00; 10X Targetspot, $47.00; both $90.00. Kodak Pupille candid, F:2, rangefinder, K1-K2, case, $50.00. Winchester .25-20 SS, medium octagon barrel and action only, cases, bullets, Ideal tool, $12.00. .30-06 cases, fired once, ½¢; cast bullets: Squibb GCHP, ¾¢; gallery 1/3¢; .25 cal., gas-check, ¾¢; plain base, ⅜¢. Jacobs medium drill chuck arbor, B&S micrometer, cutoff tool, 2 calipers, dividers, center-pitch gauges, automatic center punch, all $16.50. .38 Special loading press, 2,000 primers, Bullseye, many empties-bullets, $40.00. Robt. Quigley, Brockport, N. Y. 4-43

VERY GOOD, ITHACA 10 DOUBLE, 32", SST., ejectors, ivory beads, beautiful Bishop stock, beaver tail forearm, 7 boxes shell, $75.00. Excellent, Wards 16 shot, bolt action 22, 4 power scope, sling, $25.00. Excellent, 25 Colt Automatic, 355396, 50 rounds $26.50. Want 52 sporter. Parks Bacon, Clinton, Missouri. 4-43

WINCHESTER 92, 25-20, $17.00. WINCHESter 73, 44-40, $7.00, with new barrel $16.00. Winchester 86, 45-70, $15.00. Walnut Hill K-Hornet, 24 in. barrel, $24.00. Stevens 44½ Hornet, new lined barrel, $27.50. Ammo. extra. WANTED—Cash or Trade: Krags, Enfields, .35 Whelen barrel for Mauser. Huizenga Gunshop, Zeeland, Michigan. 4-43

45 COLT S.A.A., 6", VERY GOOD, $35.00; 38 Special Smith & Wesson, 4", Very good, $35.00. Lloyd J. White, 801 Wash. Blvd., Ogden, Utah. 4-43

LATE 6½ WOODSMAN, STANDARD 52, BOTH good inside and out, $40.00 each. Fair Bisley .45, 5½, adjustable sights, accurate, $20.00. Zeiss Army field glass, fine except needs cleaning, $20.00. J. Alderman, Greene, N. Y. 4-43

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52-B BULL GUN, OLYMPIC FRONT, VAVER Rear (Not Extension), Excellent, $70.00. 52-B Eric Johnson Heavy Barrel, Marksman Stock altered crudely, barrel and action, good out, excellent in, no sights, $42.50. 52 Speed-lock Heavy Barrel, Custom stock, Very good out, Excellent in, $42.50. Set of Rem. 37 Factory sights, Excellent, $14.00. Pacific, 30 Newton Die and Seater, Excellent, $8.50. W. H. Womack, Route 2, Box 311, Shreveport, La. 4-43

SMITH & WESSON 44 SPECIAL, 6½" BARREL with holster and 97 cartridges, perfect inside, holster worn outside or good, $40.00. C. C. Whittaker, 541 Briar Cliff Road, Pittsburgh, Pa. 4-43

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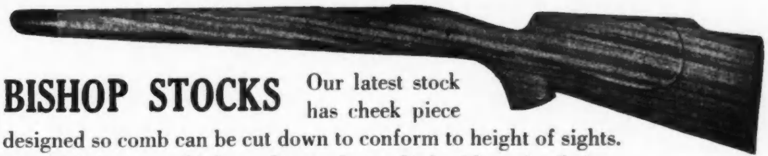

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COLTS:—NEW POLICE, 32x6, EXCELLENT, 500 Late Ammo., $55.00. OM, HB, 38x6, Excellent, $60.00. OM 22x6, Excellent, $60.00. Woodsman, 6½", Target Sights, Good in, Blue worn, holster $40.00. H&R's: Eureka, Excellent, Holster, $45.00. Sportsman, SA, Excellent, Holster, $37.50. Sportsman, DA, Excellent in, Blue worn, Holster, $30.00. Savage 23-D, 29-S, Excellent, 100 Ammo., 100 Primers, $55.00. Krag Carbine, Latest, Excellent, Extras, Ammo., $40.00. Sportsman 16 gauge, Excellent, Some blue wear, Cutts, 2 Tubes, wrench, pad, $85.00. S&W, MP, Pearl Stocks, $3.00. 2 Kit or Handgun wood boxes, nice finish, hardware, $2.50 each. Heavy Hunting Coat, late features, 40, as new, $8.00. Checkometer check writer, protector, $10.00. Remington #10, Typewriter, needs cleaning, $25.00. Conn "B" flat tenor saxophone, finest airplane luggage case, accessories, as new, $145.00 cash or $175.00 worth of guns. 1"-2" Micrometers, $7.50. TRADE—.30-'06 Commercial, 348, 300 & 357 Magnum, 22 H.P. and 300 Savage, 220 Swift, 257 Roberts, 45 Auto, .30-'06 and 38 S&W, Spec. Primed cases, Primers, Powder for 22 L.R. Hornet, 30-30. WANT—Late 52 HB Outfit, Ammo. Springfield Issue, 70 Super, Short Woodsman or HS, "A." Other guns, ammo. What? Buy, Sell, Trade, List, dime. Member, Gordon Joslyn, Greenfield, Mass. 4-43

TARGO TRAP, NEW, $5.00. TRADE—.30-30 Winchester Single Shot. .22 Short Musket. WANT—.30-40 Winchester Loading Tool. H. Slawson, Lynnville, Iowa. 4-43

COLT .44 CAL. PUMP RIFLE, FAIR TO GOOD, 1 box ball ammunition, $30.00. 175 .45 Colt F. A. 1873, $10.65. 250 .32-40 Peters Smokeless, $18.75. 179 .405 Winchester Peters, $20.00. 15 .35 Winchester, $3.30. 15 .38-55, $2.25. 40 7mm Mauser 139 (game), $6.00. 20 7mm Mauser 139 gr. M.C., $2.50. 19 .30-06 paper bullet, $1.90. 15 .45-90, $2.25. 45 Metallpatronen Cal. 5.6x35mm "Rauchles," $4.50. H. Philip Orem, Box 504, Plainfield, N. J. 4-43

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LUGER DRUM, $7.50. GERMAN HELMET, $2.50. German gas mask, $2.00. British Flintlock Pistol, $12.00. WANT—D.W.M. Luger Cartridges. 8mm Mauser Cartridges. German "Kar" "98," must be very good in and out. Short bayonet for "98." Sling for "98" Rifle and "Kar." Dave Babcock, 51 Oakdale, Pleasant Ridge, Michigan. 4-43

OFFICERS MODEL 38 SPECIAL, 6 INCH BARrel, Roper sights, grip adapter, perfect condition, $65.00. C. C. Hullinger, Devils Lake, No. Dak. 4-43

.30-06 SPRINGFIELD MOD. C STOCK, REDfield rear, $40.00. .30-06 Springfield Sporter, Mannlicher stock, 20" bbl., 48-ramp front, $90.00. Winchester 218 Bee, scope mount, new, $45.00. 23-D Hornet, 29-S and sling, new, $50.00. 12 Ga. D. B., S. T., 26" bbls., beavertail forearm, $30.00. 20 Ga. D. B., 30" bbls., beavertail forearm, $30.00. S. W. .38 New Police 4" bbl., $30.00. S. W. .32 Long 6" bbl. nickel, $25.00. WANT—22 Var., 250, 257R, 270 bullets. The last round-up. Harry Davison, Box 76, New Franklin, Mo. 4-43

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WINCHESTER 64, PISTOL GRIP, DEER 30-30 with sling. Excellent in, very good out. WANT—Late 52 heavy barrel or $60.00. Dewitt Black, 1017 West Fifth Street, Pecos, Texas. 4-43

ITHACA FEATHERLIGHT, 16 GAUGE, 28" full, perfect, $55.00. Remington Automatic, 20 Gauge, 26" full ribbed, good to very good, $45.00. M. Martin, 3920 Grand Blvd., East Chicago, Indiana. 4-43

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KRAG, 26", PAD, RICE PEEP, FAIR, 60 cartridges, $18.00. Winchester, '06 with excellent 62 barrel, tapped for Weaver, rest fair, 500 Hi-Speed Shorts, $16.00. WANT—25 Remington, 22 Hi-Power, .250-3000, also cartridges, fair Winchester 11, good Winchester 12-12, 26" modified extra barrel assembly, perfect Winchester 74 L.R., Binoculars. Henry Abels, Clay Center, Kansas. 4-43

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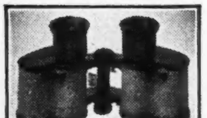

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WINCHESTER 70 BULL GUN, .30-06; SHEEPskin case; Lyman tube sight, also 48 and 17A. Hand finished action. Capable of 1.9" groups 200 yds. Outside V. G., inside excellent. All for $100.00. Captain John E. Stephenson, 224 Elizabeth, Ft. Collins, Colorado. 4-43

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FOR SALE: COLT OFFICIAL POLICE .22 LONG Rifle, sheeplined holster, V.G., $45.00. .30 Luger, with 100 cartridges, leather holster, V.G., $40.00. Will trade for 10X or 12X Scope with mounts. WANTED—50 Gr. Lovell M.J. Bullets, Hornet Bullets No. 6½, 8½ and 120. Primers. David P. Kain, Eaton, Ind. 4-43

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COLT BISLEY, 44 SPECIAL, BLUE, 7½" BARREL. Colt factory overhaul with factory new barrel and cylinder, excellent plus, $50.00. Colt Frontier .45, blue, 7½" barrel, excellent in and out, $45.00. Frame only, Colt Official Police, is factory new, blue, late model, $15.00. Money order, no checks. Satisfaction guaranteed or money refunded. O. N. Gregg, 4241 Troost, Kansas City, Mo. 4-43

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K-22, GOOD, SOME BLUE OFF, SMOOTH TRIGGER, $50.00. .45 Colt Automatic, plated, 40 loads, $55.00. Krag, as issued, excellent, Pacific peep, 10 hand loads, 50 empties, $30.00. Krag 22 Neidner Mag. stock altered sporter, scope blocks, no sights, hand resizer, 40 empties, 100 bullets, $50.00. 438, needs cleaning, $10.00. 300, 36 N.M., 10¢ each. 50 cases Sureshot shells: 12 gauge, 6 shot, $34.00 case; 12 gauge skeet, $34.00 case; 12 gauge trap 8's, $36.00; 12 gauge, 24 grains, 6's, $32.00; 16 gauge, skeet, 9's, $32.00 case; 20 gauge, 6's $32.00 case; 28 gauge, 6&9's, $30.00 case (at least 4 boxes). New Guns: Remington 141, .30 cal., $80.00; Winchester, 61, .30-30, $72.00; Savage, 99, .300, $72.00; Savage, 23C, .32-20, $47.00; Savage, 23B, .25-20, 20 loads, $48.50; Winchester, 71, .348, $88.00; you pay express; stamp please. R. T. Anselin, 1719 Dunlavy St., Houston, Texas. 4-43

12X LYMAN SUPER TARGET SPOT WITH mount, new, $90.00; 45X Wollensak Spotting Scope, new, $75.00; 35X Spotting Scope, Excellent in, Good out, $25.00; Set B&M loading tools for 30-'06 with extra dies, cradle, bullet seating tools for 38 Special, also B&M 30-'06 bullet puller. Set complete, $30.00; 260-172 Gr. 30 Cal. boat tail bullets, $10.00; Winchester 42-410 Skeet grade, new, $60.00; Winchester 22 Mod. 69, 29S scope mounted, new, Carton 22 L.R., $50.00; Winchester 94 Carbine 30-30, Excellent, $40.00; Winchester 94, 30-30 Octagon barrel, Full mag., Excellent, $40.00; Colt 45 Automatic 2 Clips, Holster, Excellent, $55.00, same very good, $40.00; Colt 38 Super Automatic, Excellent, some blue wear, $75.00, plenty of ammunition with gun, $3.00 box; Colt S. A. 44-40, Perfect, $45.00; Colt S.A. 38 W.C.F., Excellent, $40.00; Colt New Service 44-40, Excellent in, Very Good out, $32.50; Colt Officers Model Target, 38 Special, 5 inch, Excellent, $45.00; S&W 45, 17 Army, Excellent, $40.00; S&W 38 Special Nickel, 4 inch, new, $50.00; S&W 38 Special Blue, 5 inch, Excellent in, very good out, same 6 inch, same 6½ inch, $40.00; S&W 38 Special 2 inch Square Butt with holster, Excellent, $50.00; Savage 32 Automatic Pistol, Perfect, $22.50, Excellent, $20.00; V. G., $17.50; 9mm Luger, 4 in. Excellent, $40.00; 7.65 M.M., 4 in. Luger, Excellent, $40.00. W. J. Bath, Independence, Kansas. 4-43

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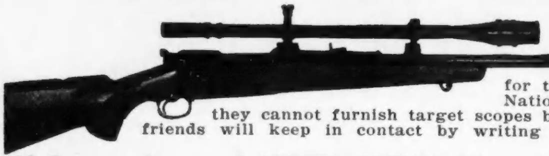

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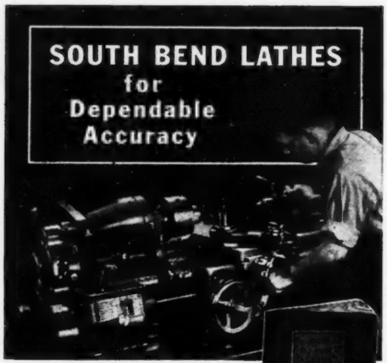

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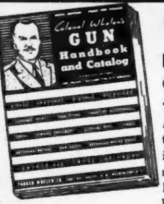

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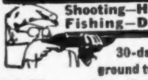

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63, WINCHESTER, FANCY GRAIN STOCK, 29-S scope, factory condition, 500 Winchester High Speed 22's, $65.00. Krag, cut down stock, Springfield front sight, excellent, 50 handloads, $40.00. Savage 99-F, takedown, .22 Hi-Power, blueing worn, very good, $30.00. .45 Auto cowhide holster, $2.00. Ideal cap and decapper, $1.00. 4, Marble Auxiliary cartridges, $2.00. Powder scales and weights, beam type, fitted throughout with jewels, $12.50. 300, N. M. new primed cases, $12.00. 500, 173 gr. pulled issue bullets, $5.00. 65, 1918, .30-06, no splits, $1.25. 300, .45 Auto, 1935, clean, $15.00. 1000, Remington .22 L.R. Kleanbores, loose, $8.00. 40 Remington 9mm clean, $4.00. 60, Peters, Gov't. Model .30-06, $4.80. 20, Peters, S. P., Model 19-03, $1.60. 40, Savage .300, $4.00. 60, Savage .22 Hi-Power, $3.75. 6½ lbs. #4759 (replaces #80), $1.25 canister. 6# U. S. Pyro, $1.00 pound—Fed. permit. 2900, 35 Gr. Hornet, $1.50 hundred. 1100, 40 Gr. Hornet, $1.50 hundred. 1500, 35 gr. Spitfires, $1.75 hundred. 500, 41 Gr. Super Lovell, $1.75 hundred. 300, 40 Gr. Express, $1.75 hundred. 200, .55 Gr. Niedner, $2.00 hundred. Must buy 500 or more. 500, 410 new primed cases (short) and wads, $2.00 hundred. 300, 20 gauge, new primed cases, wads, $2.00 hundred. 200, 12 gauge, fired, unprimed cases, wads, $1.50. 100, 10 gauge, new primed cases, wads, $2.00. 750, 38 rim fire, $10.00 for the lot. First money orders. Stamps please. Arthur H. Hanson, 2715 Wood, Kansas City, Kansas. 4-43

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FREE! GENEROUS "CASH OR TRADE" quotation on your Guns or Ammunition. Decribe fully. No obligation. Thousands of New and Used Bargains in Guns of all models, gauges, calibers to sell or swap; also Ammunition, Fishing Tackle, Outboards, Golf Equipment, Binoculars, Cameras, Diamonds, Jewelry, Sportswear, other Sporting Goods. Free "Guaranteed Bargains Catalog" featuring thousands of "hard to get" items. Send 3¢ stamp. Klein's Sporting Goods, 501E South Halsted, Chicago. Established 1885. tf

GRIFFIN & HOWE .30-06, SPRINGFIELD action, excellent Griffin 24" medium heavy barrel. Scope block, sling, butt trap, Lyman 48. Fine engraving, custom stock, ammunition. Cost about $300.00. Sell $175.00. Trades and time payments considered. Wm. Fleming, 25 Shelby, Dumont, New Jersey. 4-43

MATCH TARGET WOODSMAN, PERFECT, IN factory box. $68.00, or trade for 52 Sporter. H. Whelpley, 282 E. 150th St., N. Y. C. 4-43

ITHACA 12 GAUGE SINGLE TRAP 5 E grade, Excellent, $75.00; Remington 32-20, 1 box of shells, Excellent, $35.00; Remington 20 Gauge Automatic, Poly Choke, Very Good, $65.00; Savage 22 Target, $25.00. Will trade: Want—Winchester Model 70, 270 or '06, Smith & Wesson 22 Masterpiece. McNeill Electric Company, 724 E. 4th Street, Pueblo, Colorado. 4-43

NEW 70 SWIFT, HENSOLDT ZIEL-DIALYT, Redfield Senior mounts, $144.50. Perfect 70-257, Hensoldt Ziel-Dialyt, Redfield Junior Mounts, $139.50. Plenty cartridges. TRADE—Either for .30-06, equal value. Dr. Chas. C. Adams, Longview, Texas. 4-43

ENFIELD AND SHELLS, $37.00. WINCHESTER 69, $13.00. Both Good; Will trade. Nathan Walstad, Box 85, Milton, N. Dak. 4-43

FOR SALE OR TRADE—.45 COLTS AUTOmatic, 2 Clips, 100 cartridges, very good, $45.00. Brown and Sharp Gear Vernier Calipers, $20.00. WANT—.30-'06, 16 Browning Automatic, Winchester 5-A or what? Millard E. Timmons, 422 Vine Street, Kenton, Ohio. 4-43

EXCELLENT 35 MIELT FOR 52 H.B., $13.50. 37 Remington rear, $12.00. Weaver 333 T Mount, no screws, $7.00. New Galvannealed Steel blueing tanks, $4.50. Beautiful Cherry and Walnut loading blocks for all calibers. 15% tin-lead mix, .30-06 brass. WANT—half inch shaper cutters, professional carvers tools, .30-06 loading tools, .220 and .300 H&H components, B&L Drawtube. Andrew C. Rasmussen, Gibson City, Ill. 4-43

WINCHESTER H-W SINGLE SHOT R-2, CASES, tools, excellent, $50.00. WANT—54 or 70 Hornet, .250/3000, .257, Fecker or Malcolm Scopes. Sam Ellis, Longview, Washington. 4-43

WILSON OFFERS NEW GUNS FOR CASH or trade—Harrington & Richardson Model 121, 20 gauge, bolt action, 6 shot, $19.25; Fulton 16 and 20 ga. double barrel shotguns, $38.60; Fox Sterlingworth 16 & 20 gauge, $64.95; L. C. Smith Field, 16 gauge, $63.60; LeFever 20 gauge, $39.00; Savage 99EG, .300 caliber, $61.75; 99T .30-30, $71.00; 99G .250, 3000, $72.05; Remington 141, .35 cal., $69.95. Ammunition with each gun sold or traded. Stamp for list. Wilson's, 3082 West 25th St., Cleveland, O. 4-43

SELL OR TRADE—BUSCH TERLUX, 18X46, Prism, case, $60.00. WANT—For cash. Hi-Standard "B", H-A, H-D. Remington 31, 12 gauge, 26 or 28". F. C. Culler, Alliance, O. 4-43

TWO 45 SA COLTS, FAIR TO GOOD, $17.50; $25.00. Special shot barrel, $6.00. Sam Browne belt and holster for 38, $7.00. Good Enfield issue, $27.50. Stoeger Enfield, $45.00. Weaver 330 post, $25.00. WANT—ammunition, shells or what? W. F. Kennedy, Frankfort, Kansas. 4-43

FOR SALE: PARKER DHE 12 GAUGE, Skeet, single trigger, solid rib, pistol grip, excellent in and out, $187.50. Parker CHE 12 Gauge Trap, double trigger, solid rib, straight grip, excellent in and out, $195.75. Parker SC 12 Gauge Trap, single barrel, ventilated rib, single trigger, straight grip, Morgon recoil pad, excellent in and out, $187.50. Trade for Guns, Cameras, or Cartridges. Warshal's, First and Madison-BB, Seattle, Wash. 4-43

SAVAGE 99 MODEL 22 HIGH POWER, 29S Weaver Scope, sling, excellent, $65.00. Plenty bullets, $1.45 box. Winchester 94 Model .30-30, sling and 29S Weaver Scope, box bullets, shot ten times, $65.00. WANTED—The following for cash or in trade for above, but must be like new, 12 Gauge Browning Automatic, 20 Gauge Remington Pump, Winchester 52, also 70 in Hornet or .30-06. Zeiss Super Ikonta B., Ampro 16 M.M. Projector. Also will TRADE the following new ammunition: 3,000, .22 Shorts, 500 Longs, 1,000 L. R. 500 Hornets, 250 .30-06. D. D. Green, 100 S. Carol Blvd., Upper Darby, Pa. 4-43

D.H.E. PARKER 12 GA., 30", F. & M., SINGLE trigger, case, very good, $100.00, or excellent Super M-70. M. G. Pratt, 1113 E. Portland, Phoenix, Arizona. 4-43

BULLET CASTER, ELECTRIC, FACTORY NEW, $5.00. 350, S. & W. Special Wad cutters, $8.50. Stevens .22 Auto plus M 22 L.R.'s, fine, $28.00. TRADE—Primers S.R. for other sizes; trade 22's for Primers. Stamp. F. Emerson, Auburn Street, Auburn, Mass. 4-43

SALE OR TRADE: 37 REMINGTON, EXCELlent, 1½ inch X heavy brass elbows, ⅜ valves. WANT—M-1, Standard 52, perfect; pair Win. 75's, target, sporter. William Sheffer, Wingdale, N. Y. 4-43

PRACTICALLY NEW REMINGTON 20 GAUGE Sportsman Automatic, standard, two factory matched barrels, 26" improved cylinder, 28" full; WANT—Winchester 21, double, 20 gauge, excellent or better. Paul T. Nicholson, Sheffield, Ala. 4-43

MAUSER .30-'06 BULL, PRACTICALLY PERfect, $115.00. Deluxe Springfield, used, $76.50. Winchester 30-30, cartridges, $31.50. Felix Phillips, 1508 Clover, Amarillo, Texas. 4-43

WINCHESTER M/70 STANDARD HORNET, AMmunition. Also M/70 standard K-Hornet, 300 cases, tools, both excellent. Will sell or trade for same model Swift or other larger calibre. Will trade up to 2000 small pistol primers for large rifle primers. 2000 long rifle cartridges, $15.00 per thousand. WANT—.25 caliber bullets. M. O. Smith, Oneida, Illinois. 4-43

WINCHESTER M42, 410X28, PERFECT, $50.00. Marlin M44, 20x28, Reblued, Good, $40.00. Parker VH 12x30 F/M Moulded Case, perfect, $100.00. Savage 99EG, 300, Redfield Receiver, Perfect, $65.00. Winchester 54, .30-'06 Reblued, Excellent, $65.00. Winchester 65, 218 Bee Lyman Receiver, Excellent, $50.00. Colt Bisley SA 32/20 7½ Inch, Very Good, $45.00. Remington Smoot 38RF SA Nickel, Good, $10.00. Many others. List Stamp. Ed Howe, Coopers Mills, Maine. 4-43

SELL OR TRADE—REMINGTON SPEEDMASter, .22 Auto, 29S. T, mounted, Very Good, Scope good, $45.00. WANT—Lyman Targetspot, 8X, over or equivalent, Colt Officer's Model 22, Woodsman, K22. Raymond Mataya, Route 2, Ashland, Wisconsin. 4-43

STOEGER KRAG SPORTER, 24" BBL., PEERless stock, three leaf rear, semi-ramp front, sling, cartridges, Very Good, $40.00. Trade for Excellent M70 300 or 375 Magnum and pay cash difference. Or? Capt. Buck Brown, Rt. 1, Largo, Florida 4-43

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DOUBLE BARREL EXPRESS RIFLE, CAL. 30-40 Krag, 22" Barrels, Excellent, $250.00. Shotgun 20x26 Parker V.H.E. S.T. Beavertail Forend, Excellent, $135.00. Ithaca 12x32 Trap Gun #5, S.T. Beavertail Forend, Recoil pad, chambered for 3" Case, $175.00. Excellent. Arthur Kovalovsky, 1515 North Gardner Street, Hollywood, California. 4-43

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PARKER V.H. 12-26 IMP. CYL-MOD., VERY good to excellent out, excellent to perfect in, with solid leather case, $90.00. Will TRADE for 70-06 Super Grade. Andrew Kersch, 1516 Beach Ave., N. Y. C. 4-43

9½X9½ SINGLE POLE TENT, $14.00; BANNERman's 1925 Catalog, bound, $2.50; Pair Bronze Oarlocks, $1.50; Grapnel Anchor, $2.00; Key Winding Watch, $22.00; Edison 1903 Cylinder Phonograph, $25.00; Consider antique pistols in trade. WANT—Colt, Remington Derringers; Winchester 02; 410/22 O.U.; .45 Colt tool. E. F. Brandt, St. Augustine, Florida. 4-43

GERARD SCOPE, 4X, EXCELLENT OPTICALLY, blueing worn, 3 post reticule, about 2 inch eye relief, exceptional light gathering qualities, definite clear field, mounts for imported Mauser sporter, (mounts obtainable for other rifles); scope comparable optically to Alaskan, other famous scopes; $55.00 or trade toward perfect 52 sporter or perfect 52 H.B. J. Danley, 304 South Mead, St. Johns, Mich. 4-43

REMINGTON ENFIELD, NEAR PERFECT, ramp gold bead front, No. 70 Redfield rear, new Bishop stock, recoil pad, 22" barrel, $60.00. .30 Cal. Remington, Model 14-R, very good, $35.00. Winchester 95, .30-40, $35.00. Winchester 69, Winchester scope, perfect, $22.50. LeRoy Goodwin, 300 Lamar, Amarillo, Texas. 4-43

COLT ACE, $70.00. O.M.T. H.B. .38 SPECIAL, $65.00. High Standard D, 6¾", $50.00. H.E., 6¾", $55.00. B, 6¾", $40.00. Colt .38 Super, $55.00. All excellent. WANT—Colt 25-32-45 Auto. S. & W. .44 Special, .38-44 Outdoorsman. Winchester 71 and cartridges. Almon Williams, Berea, Ohio. 4-43

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TRADE—4,500 .22 LONG RIFLE KLEANbore Cartridges value for value for .22 Shorts. No sales. Sportsmen's Headquarters, 366 No. Palm Canyon, Palm Springs, California. 4-43

TRADE—SURVEYORS TRANSIT LEVEL 25 power, makes splendid Spotting Scope, with short tripod. WANT—Smith 20 Gauge, Selective Single Trigger, auto ejectors. Dr. J. H. Lucas, Brookfield, Mo. 4-43

TRADE—22 L.R., 22 SHORT, NEW KRAG Cases. WANT—L.R. Primers. V. E. LeRoy, 118 Oakhill, East Lansing Mich. 4-43

TRADE—TRAP AND SKEET SHELLS FOR Duck Loads 12-16. E. D. Adams, 6310 Clayton Road, St. Louis, Missouri. 4-43

TRADE—GERMAN SHORTHAIR SCHWARENberg and Dusseldorf Lines, well trained perfect retriever for Winchester 95, Luna Target, 30-'06 or? Emil Stoll, 429 Luedtke, Racine, Wis. 4-43

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WILL TRADE 22 CAL. 63 GR. SISK NEIDNER Bullets, or Winchester Primers #116 or #120 for 40 gr. Sisk Express Bullets. Carl S. Melton, 499 Second Ave., South Charleston, West Va. 4-43

WILL TRADE M-98 MAUSER ACTION FITTED with new 30-06 24" Enfield barrel, blued, ready to stock, no sights, for 3000 N.C.N.M. primers, 1,000 to be small rifle, and 2000 to be large rifle, preferably Winchester make. G. R. Douglas, Box 773, Belle, West Va. 4-43

TRADE—ZEISS 8x30 C. F. DELTRINTEM REGular for 6x30 Bausch & Lomb regular. Late type or will buy outright. Will pay extra for light weight. Wm. F. Neitz, 104 Frisbie St., Vallejo, Calif. 4-43

TRADE—NEW UNFIRED 23D HORNET WITH ammunition, etc., for new or factory perfect 38 special. Give full details. Frank Yarborough, 914 Main Street, Columbia, S. C. 4-43

TRADE—.30-40 KRAG AS ISSUED, FAIR. Twenty rounds Peters 220 gr. WANT—Hornet Primers or? Burford Joseph, 806 South Street, Lafayette, Indiana. 4-43

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TRADE—.22 and .38 COLT O.M., .22 BANKERS Special, .32 S. & W. Hammerless, .45 Colt 1917, all excellent, with holsters; .22 Over .410 Under Stevens, Lyman peep, perfect. WANT—Kentucky Flintlock Rifles, in original and fine condition. J. F. Galloway, 833 Wagar Road, Rocky River, Ohio. 4-43

TRADE—AMMUNITION: .30-06 AND .45 AUTO, new excellent; Colt P. P. S., shoulder holster, and shells; .32-44 Russian, excellent; and cash. WANT—Set-trigger action and barrel, .30-06 preferred, or Rifle for restocking; 5-A Scope or better; Driver 900 Sander; 7M.M. Military Mauser; .45 Auto; other arms. Machinist or Carpenter, hand or bench tools. Life Member. L. Wadman, R.F.D. 854, Mill Valley, Calif. 4-43

TRADE—NEW 1942 FORD AND MERCURY Radio for 35 Remington Automatic, 52 Winchester, or what have you? WANTED—To buy, barrel for 35 Remington Automatic and stock, barrel 33 Winchester solid frame, used deer rifle, target rifle and pistol, reasonable. Richard Allen, Box 598, Essex Jct., Vermont. 4-43

TRADE—#120 WINCHESTER PRIMERS, OR .22 L.R., Kleanbore cartridges. Two hundred primers for hundred Sisk .224" 55 grain, 50 grain bullets. WANT—Set trigger Mauser actions, other single shots, .22 cal. barrel blanks. Hervey Lovell, 3345 N. Gale, Indianapolis, Ind. 4-43

TRADE — EXCELLENT 10X SUPERTARGET-spot for prismatic spotting scope and Junior or equivalent. Perfect .38 O.M. heavy barrel only, $10.00. Want—barrels only in .220 Swift, .35 Remington and Winchester, .30 and others; Pachmayr scope mount for 70 Winchester. C. L. Eimer, 1106 Sergeant, Joplin, Missouri. 4-43

TRADE—VERY GOOD ORIGINAL BISLEY COLT .45, 7½" barrel. Want—Very Good DWM Luger and Holster. James Adair, Member, 160 Baer, Bremerton, Washington. 4-43

TRADE—WILL TRADE EQUAL VALUE: 12 gauge Nitro and regulars; 410, 3 inch; 22 long rifle; 22 shorts for clean rifle and pistol primers. R. T. Anselin, 1719 Dunlavy Street, Houston, Texas. 4-43

TRADE—SAVAGE 23D HORNET, SLING, Weaver 355, 100 ctgs., perfect. Trade for perfect Match Target Woodsman, Hi-Standard "H.E." or .22 Officers Model. C. M. Clark, 2717 Louisa, Catlettsburg, Ky. 4-43

WILSON WILL TRADE GOLF CLUBS: Wilson "Offset" irons, complete sets, for high power rifles, .22 cal. rifles or pistols. Stamp for list. Wilson's, 3082 West 25th Street, Cleveland, O. 4-43

TRADE—K-22 PERFECT MURAD GRIPS, AND Harrington Richardson 410 gauge Kit gun and box of shells. Want—Smith & Wesson on Magnum. A. R. Treadwell, 1600 Wood Street, Oakland, California. 4-43

SAVAGE 430 OVERUNDER 12 GAUGE, 30", M. & F., Excellent, for "Officers" Colt 38 special. Also complete .45 A.C.P. Ideal reloading outfit, electric motors ½, 1/3, h.p. for Kar 98, relic machine guns, .45 A.C.P. frame, parts. R. Reppert, R.D.#4, Norristown, Pa. 4-43

TRADE—116 PRIMERS FOR 9½, 120. WANTed—.30 caliber bullets, .22 sisk, 55 Gr., 8 S, 50 Gr. bullets. For sale—Model 81 Remington, .35 caliber, new, with sling and 2 boxes shells, $82.00. Clarence Helmericks, Loda, Ill. 4-43

TRADE—.22'S FOR MOSSBERG "A" AND stand. Wm. T. Hughes, 301 Carnegie Place, Pittsburgh, Penna. 4-43

TRADE—.22 L.R. KLEANBORE FOR .220 SWIFT bullets. Hi-Standard, Model D, 6¾", Thumb rest grips, King sights, Heiser Holster, Perfect, for .257 Roberts or Target scope. .22 Gebby Varminter Hi-side for .250-3000 Bolt action or $65.00. Clyde Gray, Prairie Du Sac, Wis. 4-43

WANTED

WANTED—ANTIQUE FIREARMS: POWder flasks, gun books. Will buy entire collections, cash. James Serven, Box 1777, Santa Ana, Calif. tf

WANTED—ZIELMULTI OR ZIELMULTAR ZEISS Scope Also .220 Swift. E. A. Hatton, Box 243, San Antonio, Texas. 4-43

WANTED—BAUSCH LOMB 6X30 OR 7X35 BInocular. Must be late model, excellent condition. Give price and serial number. M. E. Hutton, Jr., 222 South Mariposa Ave., Los Angeles, Calif. 4-43

WANTED—WINCHESTER 70, .30-06 RIFLE, EXcellent or better, cash. E. W. Billings, Hinton, W. Va. 4-43

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WANTED—ONE PAIR HIGH GRADE BINOCUlars, 8 power, excellent. Also Winchester 75 Sporter, Mel Leitch, 130 Linden Ave., Glen Ridge, New Jersey. 4-43

WANTED—M70 WINCHESTER STANDARD .270, perfect or new; 22 H.P. Savage Cartridges; 25-35 new or fired cases; 30 cal. sporting bullets; large and small primers; excellent 329, 29S, or 330 Weaver Scope. Joe Warnisher, Lewistown, Montana. 4-43

WANTED—FECKER, UNERTL, OR TARGET-spot Scope, 8/10X. Will pay cash. George M. Weaver, R. D. #2, New Holland, Pa. 4-43

WANTED—.22 HORNET CARTRIDGES; .270 cases or cartridges. Carl Weist, Route #2, Richmond, Indiana. 4-43

WANTED—ACCORDION FOR CASH OR will trade for guns, ammunition, etc. Scaramuzzo & Sons, 604 Blue Island Ave., Chicago, Illinois. tf

WANTED—JACKETED BULLETS, EMPTY Cases, hunting loads in popular calibers, 22 long rifle ammunition, rifle and pistol primers. State quantity, condition, and price. Enclose stamp for reply. L. E. Turley, Logan, Utah. 4-43

WANTED—MEEPOS RELOADING TOOL, IMproved Model complete for .38 Colt Automatic or .22 Hornet. State condition and price. Dr. M. M. Kemble, Minot, N. Dak. 4-43

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WANTED—SAVAGE 99EG 22 HIGH POWER, excellent or perfect. Scope preferred. Julian Doktor, Warren, Mass. 4-43

WANTED—POWDER MEASURE. BELDING and Mull or any type Ideal. Cash. Carroll J. D. Hogan, life member N.R.A., 3505 Evanston Avenue, Seattle, Washington. 4-43

WANTED—WILL PURCHASE WHITworth Hex bore Civil War Military Rifle. Must be in fine shooting order. Describe, with lowest cash price. Kimball Arms Company, Woburn, Mass. tf

WANTED—H. & R. "NEW DEFENDER." PREfer 3" barrel. Must be perfect. Lt. Fred H. Backstrom, 210th M.P.Co., Maneuver Director Headquarters, Camp Polk, Louisiana. 4-43

WANTED—COLT ACE, OR GOVERNMENT Model Colt with .22-.45 Conversion Unit. State lowest price and complete description, first letter. John S. Du Mont, Greenfield, Mass. 4-43

WANTED—6X OR 8X TARGET SCOPE. .257 Roberts. .22 Caliber Barrel. Pacific dies and shell holder for .257, .22 and .25 caliber bullets. Clyde Gray, Prairie Du Sac, Wisconsin. 4-43

WANTED—FOR CASH: ANTIQUE PIStols, Rifles, Swords, Daggers, World War Rifles, Relics, Collections, Single Pieces. Robert Abels, 860 Lexington Avenue, New York. 4-43

WANTED—LYMAN #5 POWDER MEASURE. Winchester A5 telescope; .22 Lovell. Frank Pratt, Porterville, California. 4-43

WANTED—WILL PAY REASONABLE CASH FOR short Woodsman, high-speed, good or better. C.O.D. examination required. M. G. Stewart, P. O. Box 1108, Shreveport, Louisiana. 4-43

WANTED—CASH FOR 38 SPECIAL REloading outfit moulds and components. Also want primers for 38 cal. revolver and 30-'06. Cash for Colt Matched Target Woodsman and Springfield 30-'06 Sporter. Must be excellent condition. All correspondence answered. Arthur Chafin, Logan, W. Va. 4-43

WANTED—FOR CASH: PRESSURE COOKER. 15 to 22 quart size. Must be in excellent condition. Ray Decco, Texas City, Texas. 4-43

WANTED—12 OR 16 GAUGE WINCHESTER Pump, Cutts Compensator, raised ventilated rib, beavertail fore-end. Shot gun shells any ga. See my ad in for sale section. G. E. Hassler, 2618 Chesterfield Blvd., Norfolk, Va. 4-43

WANTED—COLT AND S. & W. REVOLVers, Automatic Pistols, .30-06 Cartridges, .45-70 Cartridges, Springfield Rifles, Enfield Rifles, Krag Rifles, Cameras any make. Warshal's, First and Madison-BB, Seattle, Wash. 4-43

WANTED—.220 SWIFT MODEL 70, EXCELlent or better, and cartridges or cases, for cash. Fecker 6X, ¾", scope. Full description please. TRADE—700 Large NCNM Rifle Primers for small NCNM Pistol Primers, will pay Express. W. H. Janssen, Nokomis, Illinois. 4-43

WANTED—.22 OFFICERS MODEL COLT. NAtional Match .45 Auto adjustable sights. 20X Targetspot. Colt Shooting Master or S&W 6" barrel. .357 Magnum. .22 Police Positive Target Colt. All excellent or better. R. O. Sinclaire, 333 Seaspray Ave., Palm Beach, Florida. 4-43

WANTED—N.C.N.M. LARGE RIFLE, SMALL pistol primers, 170 gr., S.P. 30-30 bullets, new 38-44 cases. No "Whats your best offer" letters please. G. Giannotti, P. O. Box 828, Pittsburg, Calif. 4-43

WANTED—WANTED FOR CASH. AMMUnition, any quantity, all calibers. Write Public Sport Shops, Dept. R-59, 13 S. 16th St., Phila., Pa. 4-43

WANTED—7.62 RUSSIAN AMMUNITION. ALSO want Krag Rifle or Carbine. State condition. All replies answered. Erl Svendsen, 1151 West Adams Street, Chicago, Ill. 6-43

WANTED—MODEL "B" HI-STANDARD .22 Auto Pistol. Stevens "Off-Hand," 6". Si Sharp, Slatyfork, W. Va. 4-43

WANTED—SINGLE ACTION COLT, LATE model, 4¾" barrel, .44-40, but will accept .44 or .45, in excellent condition. Cand. Wayne E. Long, 8th Co., 3rd S.T.R. Class 221, Building 5418, Fort Benning, Ga. 4-43

WANTED—.45 S. & W. M1917 REVOLVER, GOOD or better. Lt. L. W. Pollard, Proving Center, Aberdeen Proving Ground, Maryland. 4-43

WANTED FOR CASH—PRISM BINOCulars, Field Glasses, Microscopes, Sextants, Surveyors and Builders Levels. Give description and price in first letter, all mail answered. Big Ben Mercantile & Loan Co., 179 Third Street, San Francisco, Calif. tf

WANTED—LARGE BORE TARGET HAND GUN. 44 Special, 38 O.M.T., Harpe or Buchanan 45 Auto. or what? Would like complete outfit for reloading with Pacific dies, cases, mold and some primers; also want spotting scope with stand. Will pay premium prices for a thousand large and a thousand small pistol primers; also some cases for a 45 Colt Single action and .32-20. Doctor W. F. Parker, Coachella, Calif. 4-43

WANTED—CASH FOR CAMERAS, BINOCulars, Telescopes, Firearms. Good Guns wanted in trade. National Camera Exchange, 11 So. 5th St., Minneapolis, Minn. 7-43

WANTED—WINCHESTER 21, 12 GAUGE, VERY good or better. Redfield 70 Hunter Knobs for Winchester 94. D. Armbruster, 420 South 3rd St., Rockford, Ill. 4-43

WANTED—IN EXCELLENT CONDITION, HIGH Grade *light weight* 20 Gauge over and under foreign shotgun; also *very light weight* 16 and 12 Gauge double barrel foreign shotguns. Grant Pierce, 64 Alumni Ave., Providence, R. I. 4-43

WANTED—PERFECT WINCHESTER MODEL 21, 12 Gauge. Describe fully. H. B. Hibbard, Hartsdale, N. Y. 4-43

AMMUNITION WANTED, SMALL OR large quantities: .30-30; .32 Special; .35 Remington; .30-06; .300; .22's. Send description and best cash price. The Jaymac Co., Jackson, Mich. tf

WANTED—9 MILLIMETER LONG RIM FIRE shotgun. State condition and price. H. N. Busick, 705 Ockley, Shreveport, La. 4-43

WANTED—LYMAN ALASKAN, LATE MODEL preferred, describe fully, price. J. Carroll Russell, Rogersville, Pa. 4-43

WANTED—WINCHESTER 52, STANDARD BARrel, Marksman stock, perfect condition. J. J. Frank, 3975 Christopher Ave., Detroit, Michigan. 4-43

WANTED—2 WINCHESTERS MODEL 52, standard barrel, speed lock, Lyman 48 rear, factory front sight. Very good. Cash. Write L. E. Poole, Box 364, Idaho Falls, Idaho. 4-43

WANTED FOR CASH—SHOTGUNS, Rifles, Pistols and Revolvers. Can use all makes and types. Describe guns fully in first letters, state price, all mail answered. Big Ben Mercantile and Loan Co., 179 Third Street, San Francisco, Calif. tf

WANTED—CROSSMAN AIR RIFLE. DESCRIBE fully condition and price, first letter. T. M. Sparks, 314 Hawthorne, College Park, Ga. 4-43

WANTED—PACIFIC TOOL. SIZER & LUBRICATOR. Fairbanks Scale. Powder Measure. Loading Accessories. Dies and molds for .30-06, .38 Special, .45 Automatic, .32-20 Winchester 6.5 Mannlicher. Perfect condition. George Brousseau, 1445 River Road, Edgewater, N. J. 4-43

WANTED—10X TARGET OR HUNTING SCOPE. Excellent in, Good out. Lloyd Melis, 1116 River Ave., Iron Mountain, Michigan. 4-43

WANTED—WINCHESTER M70, 220 SWIFT OR 250-3000, barrel immaterial. Replies answered. Robert Graham, 1206 Louise, Santa Ana, Calif. 4-43

AMMUNITION, ALL TYPES WANTED. State condition, age and caliber. Highest prices paid. Make offer. Stoeger Arms Corporation, 507 Fifth Avenue, New York, N. Y. tf

WANTED—EXCELLENT TO PERFECT SUPER Targetspot, Unertl or Fecker from 12 to 15X. Glen Maurer, R. D. #3, Elyria, Ohio. 4-43

WANTED—FRONTIER REVOLVER. STATE caliber, condition, cash price, barrel length. William Bachrach, 6812 Harper Avenue, Chicago. 4-43

WANTED—1000 EACH, PETERS NO. 4 AND Western No. 209 shotshell primers. Capt. Stetson, Fitzsimons Hospital, Denver, Colorado. 4-43

WANTED—30 CAL. LUGER, 4 TO 5½ IN. BARrel, excellent condition, will pay up to $35.00. Richard R. Perry, Box 391, Sitka, Alaska. 4-43

WANTED—AMMUNITION FOR 45-70 RIFLE. Interested in any amount. Be sure to send sample and prices. Roger W. Straight, New Preston, Conn. 4-43

WANTED—FOR CASH: COLT .45 AUTOMATIC M1911A1 or late commercial or National Match with arched housing. Must be excellent or better. Mrs. Virginia White, 120 S. Main St., Winston-Salem, N. C. 4-43

WANTED—COLT .25 AUTO AND CARTRIDGES. Remington .41 Derringer and cartridges. .45 Auto., .38 or .45 Colt or S&W revolver and cartridges; Weaver scope; .22 slide action. V. O. Wahrenbrock, 900 Broadway, San Diego, Calif. 4-43

WANTED—COLT AUTOMATIC PISTOLS, .25, .32, .38, or .45 Caliber. Warshal's, First and Madison-BB, Seattle, Wash. 4-43

WANTED—SCOPE SIGHTED 75 SPORTER. Scope sighted Marlin 39A. Steven's Single Shot Pistol. Forrest M. Tugel, Berger, Mo. 4-43

WANTED—FOR CASH: BROWNING SWEET Sixteen, full or modified. Winchester ventilated rib 26¾ inch barrel, full or modified. Lee Arnold, Marseilles, Illinois. 4-43

WANTED—REMINGTON M31 20 GA. 26" MODIfied, 300 Savage 99T. V.G. or better. E. G. Brust, 518 No. 11th Ave., Melrose Park, Ill. 4-43

WANTED—.22 HORNET CARTRIDGES. 100 TO 500. Sam Nite, Montezuma, Kansas. 4-43

WANTED—.30-06 SPRINGFIELD OR ENfield as issued, also Bayonets. Robert Abels, 860 Lexington Avenue, New York. 4-43

WANTED—SUPER TARGETSPOT, 15 OR 20 power, like new. Will pay top price. Norman C. Meyer, Box 431B, R. R. 6, Galbraith Road, Lockland Post Office, Ohio. 4-43

WANTED—W70, NATIONAL MATCH OR TARget Model; .22 ammunition. C. McGuckin, 627 13th St., Huntington Beach, Calif. 4-43

WANTED—.30-06 SPRINGFIELD RIFLE BARrel, either Service or Sporter, must be in excellent condition. H. M. Ghormley, Oakdale, Tenn. 4-43

WANTED—ANTIQUE PISTOLS, POWDER flasks, single specimens or entire collections. Charles Fritz, 2169 Glenside, Norwood, Ohio. 4-43

WANTED—MICROMETER REAR CLICK SIGHT for Match Target 22. Harry Quinby, 485 West 31st Street, Long Beach, Calif. 4-43

WANTED—EXCELLENT WINCHESTER 63. Describe fully stating lowest cash price. Hans Petersen, 3665 34th Avenue, South, Minneapolis, Minnesota. 4-43

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WANTED—ACE 22 OR COLT SINGLE ACTION 22 Conversion or 39A Marlin. Good to excellent. Name Price. Oscar Hobbie, Flandreau, So. Dak. 4-43

WANTED—S. & W. .22 KIT GUN IN NEW condition. Robert W. Knight, Seneca Falls, N. Y. 4-43

WANTED—MAUSER DOUBLE SET TRIGGER mechanism complete with Sear. Wm. B. Curtis, Hillsboro, Virginia. 4-43

WANTED—CASH OR TRADE. WINCHESTER S. S. .30-40, Sharps-Borchardt .45-70, Stevens 44½, Remington C & B revolver. All very good or better. Other calibers considered. Have 4000 small NMNC pistol primers, $6.50 M, Stoeger Enfield stock, no swivels, very good, $2.50. H. C. Hughes, Coalinga, Calif. 4-43

WANTED—ZEISS 10x50 BINOCULARS. 4X Zeiss Zielvier telescope. 4X Hensoldt Dural-Dialytan telescope. Sidney Morris, 721 East 3rd St., Tucson, Arizona. 4-43

WANTED—AUTOMATIC PISTOLS, .22, .32, and .45 Caliber. Warshal's, First and Madison-BB, Seattle, Wash. 4-43

WANTED—20 GAUGE PUMP, OR DOUBLE with single trigger. Must be excellent. H. C. Lee, 400 W. Madison, Chicago. 4-43

WANTED—WINCHESTER 52 STANDARD BARrel, in very good or excellent condition. Marksman stock and Vaver sights preferred; or Winchester 75 target rifle. Cash. Dr. Rita Sehnert, 607 Alliance Life Bldg., Peoria, Illinois. 4-43

WANTED TO BUY FOR CASH: GUNS AND Ammunition. Alliance Gun Exchange, Alliance, Ohio. 7-43

WANTED—FEW .22 SHORTS, .22 LONGS, LONG rifles. Own use. Edwin Purvee, Hamlin, N. Y. 4-43

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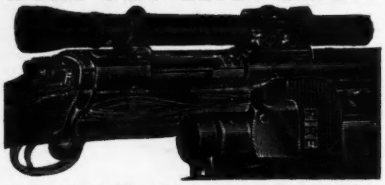

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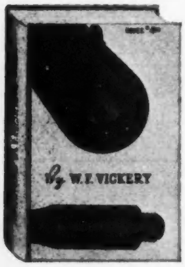

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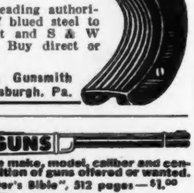

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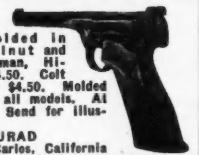

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WANTED—12 GAUGE FULL-OVER UNDER Browning, Perfect to Excellent. 12 Gauge Full Browning Auto. Rib, Perfect to excellent. L. D. Roberts, Eagle Lake, Texas. 4-43

WANTED—.30-'06 SPRINGFIELD AS ISSUED, excellent in, good to excellent out. D. S. Leech, Box 275, Lima, Ohio. 4-43

WANTED—SHARPS .45-70 CARBINE IN GOOD condition. State price. W. J. Oeding, 2129 Grove Street, Oakland, California. 4-43

WANTED—.30-'06 SPRINGFIELD OR 30-40 Krag, issue or remodeled, must be in good condition. State price. Also want 30-40 empty cases and primers. Thomas O. Nelson, 11 West Walnut Street, Alexandria, Virginia. 4-43

WANTED—MODERN AND OBSOLETE cartridges all kinds, all sizes. Send description for quotation. Ed Howe, Coopers Mills, Maine. 4-43

WANTED—TWELVE .22, .45 SERVICE MODEL Conversion Units and Floating Chambers for Service Pistols. Adjutant, 385th Infantry, Fort George C. Meade, Md. 4-43

WANTED—WILL SOMEONE SELL HIS LYMAN Alaskan or Noske 2½X type A scope for urgent experimental work vital to war effort? Need one of each. State price. Address Box 110, The American Rifleman, 1600 Rhode Island Avenue, Washington, D. C. 4-43

WANTED—WEAVER 330. SELL OR TRADE .45 Frontier, holster and belt, very good. J. N. Smithson, Eula, Oregon. 4-43

WANTED—IDEAL #5 POWDER MEASURE, very good or better. J. H. Caraway, 2240 MacArthur Blvd., Oakland, Calif. 4-43

WANTED—IDEAL SIZER AND LUBRICATOR for 30 cal. and 25 cal. bullets; Pacific tool and dies; jacketed bullets, all popular calibers; 300 Savage cases. L. E. Turley, Logan, Utah. 4-43

WANTED—FOR PERSONAL USE ONLY. HORnet bullets, any weight; 500, 22 long rifle low speed. Hip boots, size 8. Pacific dies 30-40. Describe. State price. Dr. F. W. Danby, 1103 W. Lincoln Ave., Milwaukee, Wis. 4-43

WANTED—.220 SWIFT, HORNET AND BEE factory ammunition for personal use varminting field practice. TRADE OR SELL—excellent M70 Standard Swift for same Hornet. Lt. Carl Frank, Headquarters, 27th Battalion, Camp Crowder, Mo. 4-43

WANTED—30-40, .30-'06 45 C.A. AMMO., ALL dates. State price, condition. Flaig Brothers, Hunters Lodge, Millvale, Pa. 4-43

WANTED—GOOD KRAG SPORTER AND HUNTing ammunition. Twenty-two to twenty-six inch barrel. Describe barrel, sights, ammunition. WANT—300 Savage and ammunition. O. W. Rewey, Marshfield, Wis. 4-43

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WANT—.32-40 OR .28-30 #5 BARREL, DOUBLE set triggers, Schuetzen. Russell Gray, 210½ W. Chestnut St., Washington, Pa. 4-43

WANTED—WINCHESTER MODEL 69A .22 caliber, Model 12, 16 gauge, Full, Equivalents. Belden Lemons, North Liberty, Ia. 4-43

WANTED—FOR CASH: 8X JUNIOR OR 10X Targetspot, Excellent. 1 M each .25 and .30 cal. gas checks, #120 or 8½ and #108 or 1½ primers. A. G. Abbott, Voluntown, Conn. 4-43

WANTED—REMINGTON 36 NAVY MODEL, Percussion. Good to Excellent condition. State Price, Describe fully. D. Walke, 2025 Sunset, Ames, Iowa. 4-43

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WANTED—SINGLE SHOT RIFLE, WINCHESter, Stevens or Ballard. Describe fully. Cash. Chas. Swank, East Mauch Chunk, Pa. 4-43

WANTED—30-'06 MARLIN AUTO RIFLE MAGazines; 45 ACP bullets and cartridges. N. C. Pierce, Norwich Minute Men, Norwich, Conn. 4-43

WANTED—FOR CASH: 44 COLT AND Remington Percussion Revolvers, poor to fine. Robert Abels, 860 Lexington Avenue, New York. 4-43

WANTED—CALIBER 375 RIFLE, EXCELLENT. Donald Sweet, 243 Oliver St., Pontiac, Michigan. 4-43

WANTED—AMMUNITION, NOT FOR RESALE. Up to 5000 .22 LR; 200 or more 30-'06; 300 to 500 .38 Special. Give description, quantity and price. Also excellent Winchester 70, 30-'06 or National Match Springfield. R. E. Hartman, 201 Levert Avenue, Ashland Place, Mobile, Alabama. 4-43

WANTED—SMALL QUANTITY 50-70 CENTER fire cartridges, useable condition, also .32 specials. Earle Huff, 98 Carroll Avenue, Bridgeport, Connecticut. 4-43

WANTED—.22 CALIBER SHORT AMMUnition, Any quantity, will pay $110.00 per case (10,000 cartridges). Distance no barrier. Cash waiting. Peerless Vending Machine Co., 220 W. 42nd St., New York City. Telephone: Wisconsin 7-8610. 4-43

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WANTED—.270 W. C. F. CARTRIDGES, ALL bullet weights, factory or handloads. Howard Hale, 2118 Rollins, Cheyenne, Wyo. 4-43

WANTED—256 NEWTON, 25 REMINGTON Autoloading Rifle. Small outboard motor. John Lottes, Cody, Wyo. 4-43

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WANTED—HIGHEST CASH PRICES PAID for Target Pistols, Revolvers, Rifles and Antique Guns of all kinds. Ship for estimate. Public Sport Shops, Dept. R-59, 13 S. 16th St., Philadelphia, Pa. 4-43

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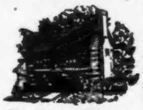

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SALE OR TRADE: #70 WINCHESTER .257 FACtory plus trimmings—bullets, primers, new dies and ammunition, $185.00 the outfit. .32 Colt Automatic, perfect, $37.00. Colt Woodsman 6½" factory, $58.00. Winchester Model #63 with Lyman and 100 rounds, $55.00. Details upon request. T. W. Hoopes, P. O. Box 634, Richmond, Kentucky. 4-43

ENTERING ARMED SERVICES. FOR SALE: Bausch & Lomb 7X35 Individual Focus Binoculars, case, new, $85.00. Winchester Model 12, 12 gauge, Standard Trap, ventilated rib, recoil pad, beavertail, excellent, $75.00. Winchester Model 70, '06, Lyman 48, sling, excellent, leather case, $80.00. Stevens 410-22, new, $19.00. Colt Frontier .357 Magnum, stag grips, Heiser flower stamped holster and belt, silver buckle, all new, $85.00. Winchester Model 63 Automatic, 22 Long Rifle, good, $22.00. Lots of shells for above guns, with guns only. Stock Saddle, flower stamped. Bridle, aluminum bit, Martingale, excellent, $125.00. Write for prices on hunting clothes, high-heel boots, etc. Registered Palomino Stallion, 7 years, sound, letters only. Edw. A. Fulcomer, Jr., Belleville, Kansas. 4-43

WANTED—AUTOMATIC BLUE ROCK TRAP. Standard make in perfect condition, for cash. E. B. Wilcox, Boyne City, Mich. 4-43

FOR SALE: IMP. NIEDNER MAGNUM, WINchester Hi-Side, double set triggers, 5A Lyman, 100 cases, 100 bullets, 100 primers, 1 lb. 3031, hand tools, sling, 1" angle accuracy, $90.00. W. T. Scott, 1806 E. Jackson, Bloomington, Illinois. 4-43

MODERN ARMS SALE. HIGH GRADE Francotte 28 Ga. Double Ejector 26" Nitro-Steel barrels, full and modified, Cross bolt action. Fine engraving, 14½"x1⅜"x2⅜", weight 5¼ lbs., very good, $225.00. Fine German 16 ga. Hammerless Shotgun, 28" Krupp steel barrels, modified and improved cylinder, cross bolt action. Indicators, Horn guard. 14½"x1½"x2½", 6 lbs., very good, $85.00. Stevens combination over and under 22 rifle and 410 shotgun. Excellent. $29.50. Colt 6" Woodsman, very good, $45.00. S. & W. .22 Target Revolver on .32 frame. 6" barrel, target sights, square butt, very good, $47.50. Model B High Standard 4½" with fine holster, excellent, $37.50. Kimball Arms Company, Woburn, Mass. 4-43

12 GAUGE BROWNING OVER UNDER, latest standard model, grade 1, Trap gun with ventilated rib, hand engraving and single selective trigger, 30" barrel, Morgan adjustable shoulder pad, perfect, ½ case of trap loads, (250 shells) available with this gun $162.50. Rudolph's, Atchison, Kansas. 4-43

WANTED—6½ WOODSMAN, STANDARD, PAY not over $40.00. J. W. Talley, 710 Monroe, Roanoke Rapids, N. C. 4-43

WANTED—ZEISS ZIELVIER OR ZIELSECHS. Describe fully, stating condition and price. Gerald Cross, Lathrop, Missouri. 4-43

REMINGTON 12 GAUGE PUMP MODEL 29T trap grade, ventilated rib, perfect, $95.00. Winchester 20 gauge, Model 12, Perfect, $50.00. Winchester 410 Model 12, Perfect, $50.00. Ithaca Model 37, 12 gauge, Featherlight. Excellent, $50.00. S. Doppelt, 363 Shepard Rd., Mansfield, O. 4-43

WANTED—W94, 25-35 CARBINE, SHELLS. Trade W53, 25, 20 with Lyman 4 Power or? E. Wadin, 18 Haynes Avenue, Johnson City, N. Y. 4-43

WILL TRADE THE FOLLOWING BULlets and loaded cartridges only for the items listed. Have bullets only, assorted Remington and Peters, .22 High Power, 70 grain Soft Point Core-Lokt, (.226" diameter). .250-3000 87 grain Mushroom. 25 Remington 117 grain mushroom. 7mm 175 grain Soft Point. 270, 150 grain Soft Point Boattail. .30-40, 180 grain Bronze Point. 303 Savage 180 Grain Soft Point Core-Lokt (.310" diameter). 8mm Mauser 236 grain Soft Point. A few 33 Winchester and .38-55, these are all bullets only, not loaded cartridges. The following ammunition on the same basis, .22 Long, and .22 Long Rifle. Will trade for the following at or near pre-war values: Large Rifle Primers. S. & W. Kit Gun. Service Ace or Conversion Unit. S. & W. .38-44 Super Police. 22 Bankers Special. Remington .36 Cap & Ball. Winchester 70 in Hornet, .250-3000, or Swift. Will give or take cash difference but will not sell for cash. Will trade a few 45 grain Remington Hornet, S. P. or H. P. bullets only, toward the items I want. Robert Haelig, Boundbrook, N. J. 4-43

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MAJ. CHAS. ASKINS, dean Amer. Arms Experts, celebrated writer: "Satisfactory deep-blue finish with surprising speed". **COLD CHEMICAL PROCESS. NO HEATING**—Not a paint. Chemicals blue instantly—**ON CONTACT!** Transform rustiest guns into new fire-arms in minutes. Color control, unsurpassed for patching. **Generous Package $1.00** **Sold by outstanding sporting goods and hardware stores everywhere. Avoid disappointment, accept no substitute. Your dealer has it. ASK FOR IT BY FULL NAME**

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Small, compact, portable, *inexpensive*, and highest efficiency. Size 12" wide, 14" tall, 17" deep. Weight, approx. 42 lbs. For every pistol and revolver up to and including the .357 Magnum. Also for .22 caliber rifle.

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Modernize YOUR GUN! Improve YOUR SCORE!

Most durable grips made. Positively unbreakable! For Colt, Smith & Wesson, Hi-Standard, Ortgies, Luger and Mausers in a wide choice of beautiful designs in ivory, pearl, walnut, onyx, etc. Low prices. FREE CATALOG. Dealers Wanted.

SPORTS INC., (Mfrs.) 2850 N. Clark St., Dept. A-4, Chicago, Ill

FOR SALE: 1, .30-06 WINCHESTER ENFIELD Sporter, sling, flat top front, Lyman 48 rear peep by Griffin & Howe, inside perfect, outside good, 60 rounds, sling, $80.00; 1, 330S Weaver 2¾, floating center dot and Stith mounts removed from 141 Remington Pump, $35.00; cash, will refund money ten days after inspection if returned prepaid. L.M. N.R.A. R. C. Godsey, Fayetteville, W. Va. 4-43

.357 S. & W. MAGNUM, PERFECT, 6", KING reflector ramp front, outlined square notch rear, 230 Magnum cartridges, $105.00. Colt M. T. Woodsman, perfect, Roper grips, extra magazine, 500 Peters tackhole, zipper case, $80.00. Remington M-141, .35, sheard gold front, Q.D. swivels, sling, canvas case, $65.00. Have plenty cartridges for above. J. B. Rock, 646 Morrison, Mt. Lebanon, Pa. 4-43

FOR RENT: MY 25 AND 30 CALIBER MOULDS and others. Trade—Krag for 23B Savage Sporter in 25, 20 caliber. Helmer Romness, Zumbrota, Minnesota. 4-43

SAVAGE OVER UNDER 16 GAUGE, 28", VERY good, 150 shells, $40.00; Colts 32 Auto, V. G., holster, 45 cartridges, $28.00; Remington 30-40 single shot, 24" barrel, Excellent, box cartridges, $16.00. H. Clark Heath, Rochelle, Ill. 4-43

WANTED—NEW BARREL FOR WINCHESTER Model 12 Shotgun, 20 gauge, full choke, 28 inch. D. L. Cunningham, Box 120, Anchorage, Alaska. 4-43

HIGH STANDARD "E," 6¾", EXCELLENT INside, very good out, $40.00; Krag Sporter, 25" barrel, Pacific sights, sling, very good inside, good out, $40.00; 2250 rounds Kleanbore shorts, $15.00; 18 used golf balls, good to fair, $10.00 the lot. Back issues Rifleman 1935 up, $2.00 yearly set. W. A. Brown, 405 W. Locust St., Rome, N. Y. 4-43

SEALED CARTON: WINCHESTER 12, 28 gauge, 500 shells, $85.00. Excellent plus Police Positive 32, 5" holster, 150 cartridges, $40.00. Excellent: Police Positive 32-20 5" holster, 100 shells, $35.00. Good: Winchester 53, 25-20, 100 shells, $35.00. Winchester 32 special, 27 shells, $28.00. Ernest Juola, Eveleth, Minn. 4-43

25 AUTOMATIC "SCHMEISSER PATENT," same size as Colt, uses standard automatic cartridge, very good, $25.00. .30 Luger, 3¾", fair, $40.00. .32 Automatic Ortgie, very good to excellent, $25.00. .32 Automatic, "Franz Stock," perfect, $30.00. .32 Automatic Mauser, perfect, $40.00. 9mm Luger, 3¾", good, $40.00. .45 Colt Automatic, Model 1911, perfect, $60.00. .35 Automatic Smith & Wesson, good, $35.00. Rudolph's, Atchison, Kansas. 4-43

FOR SALE—WINCHESTER 52 H.B., BISHOP stock, Thomas trigger, Vaver front sight, Lyman extension rear. Super Targetspot 10X, Lee center dot, good condition. Carrying case, Wisler kit, $130.00 postpaid. M. E. Berryman, Grass Valley, California. 4-43

FIRST MONEY ORDERS TAKE: S&W .44 Special Heavy Frame, Genuine pearl, Very good, $42.50. Colt D. A., Target Grips, Checked trigger and backstrap, silver bead front, Caliber 38, $37.50. Paramount .32 Automatic, Excellent, $22.50. .22 Springfield Automatic Rifle, 329 Weaver, very good out, Excellent in, $28.00. 6.5 Mannlicher Schoenauer, Excellent, cartridges, $90.00. No trades. Capt. Buck Brown, Rt. 1, Largo, Fla. 4-43

SPRINGFIELD AS ISSUED, PERFECT INSIDE and out, nickel-steel bolt, type C stock, sling, $75.00; another same except bore not better than very good, Sedgley Patented Safety Firing Pin, $65.00. Krag, as issued, bore excellent, outside good, $30.00; Krag Sporter, 24" barrel, peep rear (not adjustable) Springfield front, bore excellent, outside very good, re-worked military stock, sling, $35.00. Reasonable quantity service and sporting ammunition available at extra cost. Charles Lewin, Roseboro, No. Carolina. 4-43

SELL ONLY. 30 CALIBER DWM LUGER, 50 Kleanbore cartridges, $33.00. 32 cal. Ortgies pocket auto, 50 cartridges, $10.00. Excellent .22 Winchester '06, 100 cartridges, $15.00. Stamp for reply. Harold Mueller, 4510 No. Artesian Avenue, Chicago, Illinois. 4-43

WINCHESTER 70-220 SLING CHEEK PAD, PAcific tool 220 and 38 special high speed dies, Lyman mic. powder measure, bullets, powder, primers, cases to load over 600 rounds, 40 loaded, all perfect, $142.50. Lyman Target Spot 8X Unertl mounts, Lee dot, perfect, $65.00. Remington 37 latest Factory tested, 4000 Match 22s, with 37, $135.00. Argus spotting scope Freeland stand with case, $65.00. Bell-Howell 16 MM Filmo Auto Load F. 1.9 B-H lens ever ready case, filter, Filmo Master Projector, case, extra lamp, film cleaner, B-H tripod wood, Daylite Screen, Kodascope Editing outfit in case, outfit same as new, purchased new, $325.00. C. B. Morton, 1205 Fla. Ave., Bristol, Tenn. 4-43

WANTED—Woodsman, Hi-Standard "B," outside immaterial, short or long barrel. Ed Korrick, Box 1118, Stanford, California. 4-43

TRADE—LYMAN JR. TARGETSPOT, brand new, for two Weaver 330 Scopes with good bridge mounts. Paul Ratliff, N4912 Market, Spokane, Wash. 4-43

.22 COLT WOODSMAN 6½" TARGET AND 4½" Sport Models, perfect, $65.00; Excellent, $60.00; very good, $55.00; .22 Colt Officers Model Target, Heavy Barrel and frame, perfect, $65.00, another, excellent, $60.00. .22 Colt Police Positive Target, 6", perfect in, excellent out, $60.00. .22 Harrington and Richardson, 3", Top Break, very good, $25.00; another, Model 922, 6", heavy solid frame, fair to good, $17.50; another, excellent, $20.00. Rudolph's, Atchison, Kansas. 4-43

WANTED—HORNET AND .30 CALIBER GAS Checks. Will pay your price. Raymond Mitchell, Hanover, N. H. 4-43

SELL OR TRADE: WINCHESTER A5 SCOPE, very good, $25.00. WANT—.22 or .25 Caliber Bullets, Primers; Colts O.M.; K-22; Fecker Small Game Scope. Earl Price, Lodi, Wisc. 4-43

FOR SALE: NEW REMINGTON MODEL 720 stock only, $10.00. WANTED—Mannlicher Carbine Type Metal Fore-end Cap. Model 70 action. Model 70 Rifle, .257 caliber in good used condition. Imported Trap Buttplate. Theodore Harman, 5333 Ash, Mission, Kansas. 4-43

WILL TRADE. WHAT HAVE YOU? WHAT DO you want? Write S. Doppelt, 363 Shepard Rd., Mansfield, Ohio. 4-43

WANTED—BULLETS, PRIMERS, CARTRIDGE Cases, Bullet Moulds, Ammunition, Pacific Dies, and Tools, Ideal Bullet Sizing Dies, Late Model Star Loading Machine, also Extra Dies for same. .38 Special Official Police 4" bbl. 12 Power Super Target Spot and Lyman Alaskan .22 and .30 caliber gas checks. All above wanted in perfect shape. Send list and prices postage prepaid. Will purchase in almost any amounts. For Sale—38-44 Smith & Wesson, 5½" bbl., Cockeyed hammer, Short Action, Honed Action, Target Sights, $85.00, perfect. Art Binder, 705 El Camino Real, Burlingame, California. 4-43

TWO 14' x 16' HEAVY WATERPROOFED DUCK Wall Tents, used only four weeks, $48.00 each. .38 Special S&W; M&P, 6"; Blued; Box of Cartridges, $40.00. 2¼" x 3¼" Film Pack Camera, $75.00. John Wolford, Oxford, Ohio. 4-43

1918 GOV'T ISSUE, 30-06 CARTRIDGES, $3.50 per hundred. Sealed case of 1200, $40.00. S. & W. Military 44 Special, Good, $32.50. Hi-Standard Model E 4½" King Sight, Excellent, $55.00. J. W. Hornady, 624 South Monroe, Grand Island, Nebr. 4-43

WANTED — FRANKFORD ARSENAL BENCH Resizing Press, Horse-Shoe Type; Frankford Arsenal Bench Type Bullet Seating Press; Advise Condition and Price First Letter. Sell: .270 Winchester, .280 Ross and .35 Whelen Cartridges. O. H. Elliott, 5349 Claridge St., Philadelphia, Pa. 4-43

COMMERCIAL 30-06, 12¢; .48 GR. REMINGton Swift bullets for .30; Stamp please. Art Longo, 20 Oak Rd., Medford, Mass. 4-43

.38 SMITH & WESSON SPECIAL, MILItary and Police, heavy frame, 5" barrel, perfect, $60.00. .38 Colt Police Positive Special, 4", excellent, $50.00; another, 2", good, $45.00. .38 Smith & Wesson, Top Break, nickel, 3¼", good, $20.00; another, 4", fair, $15.00; another blue, 6", fair, $15.00. .45 Colt D.A., 5½", excellent, $50.00; another, perfect in good out, $50.00. Rudolph's, Atchison, Kansas. 4-43

MODEL 21 TOURNAMENT GRADE SKEET, EXcellent, $135.00. 12-16-28 full, V.G., 200 shells, $45.00. .45 A.C.P., tightened action, needs blueing, otherwise good, $30.00. .257 Short Waffenfabrik, D.S. trigger action, 22" medium Buhmiller barrel, Redfield Jr., 330, components, V.G., $125.00. .32 Savage Auto, V.G., $20.00. Ideal HB mould #429422 blocks, $2.50. As issued Krag, outside worn, inside V.G., $26.00. WANT—Miller 25 Magnum or Enfield or 70 action. Dr. W. T. Williamson, Scottsbluff, Nebr. 4-43

.22 HI-STANDARD H-E 500 LONG RIFLES, $75.00. .32 Officers Model Short Action, $75.00. .45 Auto King sights Grips Match Barrel, $100.00. .45 S. & W. Schofield, 200 cases, $45.00. 52 Winchester Heavy Barrel 500 Long Rifles, $85.00. 12 Remington Pump 10 boxes shells hand tooled case, $100.00. 300 Savage Mauser Action, 330 Weaver Scope, 2 boxes shells, $100.00. Match Springfield Star Gauge Redfield sights, $100.00. These guns good to very good. Write for full description. Gus A. Straus, 110 Texas St., El Paso, Texas. 4-43

WINCHESTER, MODEL 97, RIOT GUN, NEW, $35.00. 2 Winchesters, .22 Automatic Rifles, Model 74, shoots .22 shorts, in the original factory packing, $23.00 each. Browning Over & Under, 12 Gauge, ventilated rib, Trap gun, 32 inch barrels, top is 70% and lower is 65%, with Browning single selective trigger, perfect condition, used very little, in the Browning gun case, both complete $135.00. Remington Over & Under, ventilated rib. 12 gauge, single selective trigger, 32 inch barrels, top 70% and lower 65%, in perfect condition though it has been used; in a worn leather case, $75.00. Winchester, Model 12, heavy duck gun, chambered for the 3 inch shells, 32 in. bbl., full choke, perfect condition, $60.00. E. A. Hoag, Pleasanton, Kansas. 4-43

SELL OR TRADE — BRIGGS & STRATTON, four cycle, air cooled, portable, gasoline engine, excellent, $35.00. Mariner's Sextant made by Joquin, London, accurate, $65.00. U. S. Navy Binoculars, 6X30, perfect, case, $65.00. 52 H.B. unfired, Lyman and Marble Goss extension, 500 Palma Match, $92.50. Savage 99EG, .300, unfired, 2 boxes cartridges, $68.00. Colt .45 Auto Government Model holster, very good, $40.00. 1/6 H.P. Delco Electric Motor, new, 110 Volt A.C. 1750 R.P.M., $16. Chrysler 8 Cylinder Automobile Motor, excellent, $35.00. Stromberg-Carlson 14 tube latest table model Radio, new, receives standard broadcast, short wave and frequency modulation, $125.00. 350 feet first grade unused pure Manila rope, 1 inch diameter, $40.00. 750 feet pure Manila rope unused ½ inch diameter, $40.00. Lefever 12, 30 inch barrels M. & F., excellent, $35.00. Will trade, stamp please. John Nolan, 154-33 12th Road, Whitestone, N. Y. 4-43

MODEL 70 .30-06 20" STANDARD CARBINE barrel, excellent, $10.00. First Money Order. W. F. Ruggles, 141 Ashland St., Melrose, Mass. 4-43

COLT WOODSMAN 6½", EXCELLENT; COLT Army .38 Special, blue 6 in. Pearl, excellent. Both $100.00 or trade for 63 Winchester Automatic, 20 inch barrel and Lyman Alaskan with Cross Hairs, or latest 52 Winchester Sporter with 48 rear and sling. Remington Derringer Double, box shells, $20.00. Smith & Wesson Tip-Up .38, box shells, $17.50, or both for 63 Winchester Automatic, excellent. Member N.R.A. Jesse G. Ball, Russell, Kansas. 4-43

WANTED — MAUSER 98 TRIGGER GUARD, tang, magazine and spotting scope, 300 Magnum cases, Pacific loading dies for same. J. R. Thompson, Burt, Iowa. 4-43

PERFECT 70-'06, FIRED 75 CAST LOADS, 1,800 F.P.S., Redfield hunter, drilled by Weaver for B mounts. Also 20 Western 180 gr. S.P., 20 Winchester 180 gr. F.P., unused Weaver 330C B mount, cost $135.00, sell $120.00. No trade but excellent Detective Special. A. D. Harris, Clarksville, Maryland. 4-43

WANTED — LARGE RIFLE, SMALL PISTOL, Small Rifle non-mercuric, non-corrosive primers. Most any grain .30 Cal. .25 Cal., .22 Cal. jacketed bullets. .38 Special 4" or 4½" Officer's Model, .32 Officer's Model, .32-20 Official Police or Smith Wesson. If you have any of above please write. Will answer all letters. Louis Desaye, Turner, Montana. 4-43

MAUSER SPORTER .30-'06, CHEEKPIECE, horntip, excellent, $65.00. Enfield fancy sporter, new, $60.00. WANTED—Mauser or Springfield Military, cheap. Ervin King, Watervliet, Michigan. 4-43

NEW RIFLING MACHINE, WITH LAPping machine, $1100.00. Photo 10¢. A. Hubalek, 1167 Myrtle Avenue, Brooklyn, N. Y. 6-43

5X WEAVER SCOPE, PERFECT, $10.00. HAMilton Pocket Watch, excellent, $37.50. Thordarson 1 KW Transformer, $10.00. Dunlap 12" Bandsaw, excellent, $25.00. WANTED—4½" Woodsman; Colts .25 Automatic; Model "B" Hi-Standard; also cheap .32 or .38 Revolver. Bill Dudley, Elizabeth City, N. C. 4-43

WANTED—.22, 45 CONVERSION. $45.00 FOR very good. Ship Express C.O.D. Subject to examination. Robt. A. Wallace, Goleta, Calif. 4-43

WANTED—WINCHESTER 70, R-2 LOVELL. Gebby, Johnson, G.&H. job preferred. E. D. Adams, 6310 Clayton Rd., St. Louis, Mo. 4-43

SELL OR TRADE—WINCHESTER 12 TRAP Gun. Military Mauser, caliber 7.63. Colts 45 Automatic. Springfield .30-'06, poor condition. WANT—Springfield or other .30-'06 Rifle, also Springfield Receiver. J. Walton, P. O. Box 1457, Tampa, Fla. 4-43

SELL OR TRADE—M70, 220 SWIFT SUPER with Vaver #35, M2 and Hensoldt Dialytan 14X, G.&H. micrometer mount, scope bases for 1½" Unertl, 260 factory loads, empties. Excellent, $235.00; Mauser 98 sniper, offset scope mounts, Excellent, $35.00; .44 S.&W. triple-lock, 6" bbl., 2 sets special grips, holster, Excellent, $65.00; WANT—Excellent Contax III or equal with F 1.5 to F 2.8 lens. Also 12 gauge M. & F. fancy grade shotgun. R. E. Carter, 31 Lincoln, Niles, Ohio. 4-43

52 BULL GUN, NEW, GOSS, $115.00, OPTIONAL with rifle, extra cost 3,000 Target cartridges. Two scopes, 12.5X and 18X, $90.00 and $100.00, perfect; Two Varminter rifles, perfect to finest used $120.00 and $135.00, cases and etc. extra; 1150 small rifle primers. WANTED—Morse 8S bullets 40 to 50 gr. weight. Stamp. Lain Foster, 516 E. Chestnut St., Bloomington, Ill. 4-43

WANTED—G&H MOUNT FOR ALASKAN TO fit #70 Winchester. New or very slightly used. A. C. Patton, Hutchinson, Minnesota. 4-43

TRADE—FACTORY NEW 45 S&W 1917, BOX Ammo. for high number very good Springfield .30-'06. Russell Starn, 624 Duryea, Raymond, Wash. 4-43

WANTED—LATE COLT WOODSMAN, MATCH Target, 6½, or 4½. Describe fully. Seymour Bogdonoff, 317 Lee Street, Hampton, Virginia. 4-43

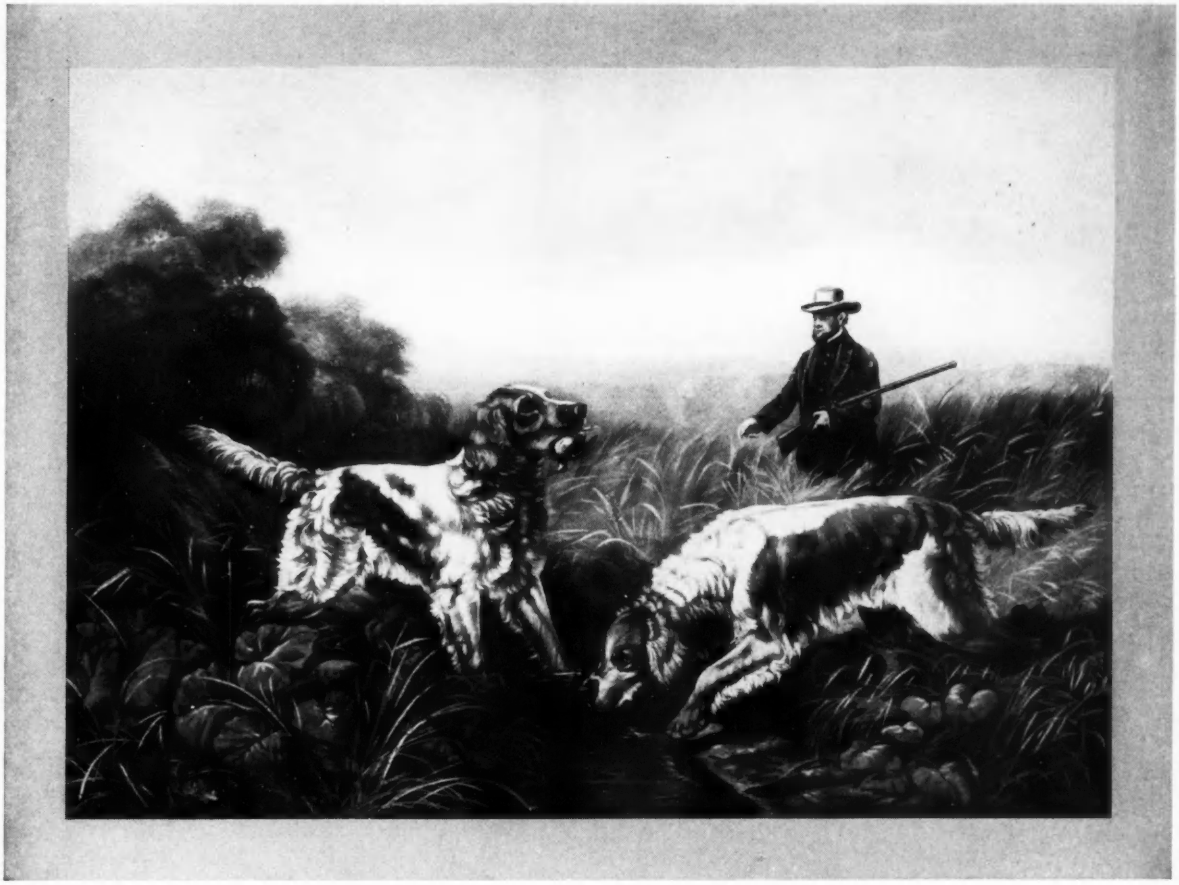
TRADE—COLT MATCH TARGET WITH Roper Grips, excellent condition, $49.50, for .22 Long Rifle or .30-30 cartridges. No cash sale. J. Warshal & Sons, First & Madison-BB, Seattle, Wash. 4-43

WINCHESTER 69A, LYMAN 57E, 17A, SLING, case, excellent condition, $20. Curtis Pfluger, 17 Goodwin Place, Brooklyn, New York. 4-43

WANTED—ARGUS SPOTTING SCOPE 55M.M with 20X eyepiece or Bausch & Lomb spotting scope 50m.m with 19.5 eyepiece. Condition must be like new. Roy Luther, 124 S. West St., Anaheim, Calif. 4-43

TARGET TELESCOPE SIGHT, VERY good, 1¾ inch objective sixteen power, $85.00. Money refunded within ten days if not entirely satisfactory. A. Hubalek, 1167 Myrtle Ave., Brooklyn, N. Y. 6-43

FOR SALE—GUNS, CARTRIDGES, SCOPES: 12X30 Smith Field, excellent $40.00. 22 Winchester, smooth bore pump, new $35.00. 410 Model 38A, 3 shot, Stevens, new $15.00. 12X30 Ithaca Victory trap, ventilated rib, very good $75.00. 35 Remington, model 141, new $67.00. 30-30 Savage, model 99, very good, $37.50. 32-20 Marlin, lever, fair $17.50. 22 Remington, model 510, single, new, $11.50. 348 Winchester, strap & swivel, new, $95.00. 300 Savage, model 40, new, $68.00. 218 Bee, Winchester, model 65, New $75.00. 20 ga. Savage, overunder, very good, $35.00. 20X28 Smith Field, new, $65.00. 20X28 Ithaca, model 37, new $59.00. 410X26 Marlin, model 90, overunder, new, $45.00. 25 Standard arms, pump, excellent, $30.00. 20X28 Fulton, new, $38.00. 410X26 Stevens double, new, $32.50. 20X28 Ithaca field, new $55.00. 22 Harrington & Richardson, trapper, new $12.50. 41 Colt, Army special, very good, $35.00. 38 Special, Colt, D. A. army model, very good, $30.00. 250 .30 Mauser (7.63) Western, $12.50. 60, 6.5 Mannlicher, $6.75. 240, 257 Roberts, 100 grain, O. P. $24.00. 80, 32 Remington, 170 grain, S. P. $7.80. 260, 219 Zipper, 46 grain, O. P. $19.00. 300, 30-40 Krag, 180 grain, $36.25. 140, 250-3000, 100 grain, O. P. $11.50. 300, 41 Cal. short Colt, $13.50. Weaver Scopes 330C, Xhair, T. mount $26.60. 440C Xhair, T mount, $31.50. 333, T mount, $7.75. 344, T mount, $7.75. 355, B mount, $12.50. 329 B mount, $10.50. 29S B mount, $16.75. Send check or money order Frank A. Efinger, 423 E. Main St., Bound Brook, N. J. 4-43



This is a reproduction of one of the rare Arthur Fitzwilliam Tait dog paintings lithographed by Currier & Ives. One or more of this celebrated series has already appeared in this publication. Others will follow.

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GOOD hunting is an American tradition as old and as honored as America itself. But in wartime this tradition may be threatened. During the last war, for example, the national game supply was allowed to fall into gravely perilous straits.

During the present war, game restoration associations are doing splendid work. But with so many sportsmen now in the armed services, these associations must depend more than ever on those of you here at home.

We urge you to give them even more than peacetime support. E. I. du Pont de Nemours & Co. (Inc.), Wilmington, Delaware.

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HE'S ONE OF THE MILLIONS WHO LEARNED TO SHOOT with a .22 rifle and Western Super-X and Xpert ammunition. The very name "Western" signifies *accuracy* in the minds of millions. Western has earned that reputation by giving shooters the most accurate ammunition that modern ballistic skill can produce. Today, that accuracy is helping our combat forces to smash the enemy.

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YESTERDAY he shot for fun . . . *today* he shoots for freedom! In these times our great American heritage, the ability to shoot straight, reveals itself a hundred-fold!

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